

**Flood Control Project Maintenance
Levee Inspections**
LMA District Cover Sheet
Spring 2019 Levee Inspection Results

Sutter Maintenance Yard East Levee Sutter Bypass

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
† Overall LMA Rating (Fall Only)				

** Non-receipt of Summer or Winter Inspection
Reports may effect overall annual rating.

† SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports. This rating is not intended to be an indication of risk.

Comments

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2019 Levee Inspection Results

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway			Bank	Unit Miles
Unit No. 01 Sutter Bypass Levee			Left	21.68
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	5/8/2019 - 5/8/2019			
DWR Inspector	Makar Sokol			
Accompanied By	David Julian DWR DFM			

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	05/08/2019 05/08/2019	Makar Sokol

LM Start		Rating **	A	Issue No.	4
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Operations & Maintenance Manuals				
DWR ID	DWR_ST0002_01_s_2013_4				
Comment Code					
Inspector Comment					
The LMA has the O&M manuals.					

No Photos

LM Start		Rating **	A	Issue No.	5
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Emergency Supplies & Equipment				
DWR ID	DWR_ST0002_01_s_2013_5				
Comment Code					
Inspector Comment					
The LMA has flood fight supplies and equipment.					

No Photos

LM Start		Rating **	A	Issue No.	6
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Flood Preparedness & Training				
DWR ID	DWR_ST0002_01_s_2013_6				
Comment Code					
Inspector Comment					
The LMA has completed flood flight training.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	05/08/2019 05/08/2019	Makar Sokol

LM Start	0.01	Rating **	U	Issue No.	3
LM End	21.78	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.151161 °	38.898027 °
				-121.832001 °	-121.617900 °
DWR ID	DWR_ST0002_01_s_2012_3				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP_2019_ST0002_450_3_20190510_00083.jpg



View of the vegetation on the waterside slope. Spring 2019.

LM Start	0.01	Rating **	U	Issue No.	2
LM End	21.78	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.151161 °	38.898028 °
				-121.832000 °	-121.617900 °
DWR ID	DWR_ST0002_01_s_2012_2				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP_2019_ST0002_450_2_20190510_00084.jpg



View of the vegetation on the landside slope. Spring 2019.

* Location
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

** Rating
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	05/08/2019 05/08/2019	Makar Sokol

LM Start	0.27	Rating **	M	Issue No.	62
LM End	0.27	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.147956 °	39.147956 °
				-121.829526 °	-121.829526 °
DWR ID	16867				
Comment Code					
Inspector Comment					
FS_ID:53669 DS_ID:16867 EP_NO: 768 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: 02/12/2019 Need to request maintenance and inspection records to confirm condition of line through levee. Gas line marker previously located on the WS slope has been damaged, recommend replacing. Structure description has been updated based on the permit review of 14802 (dsid 16867) and 768 (dsid 25575). USACE PI issue references Permit No. 768 for this crossing correct Permit No. should be 14802. (O. Magana - DWR UCIP)4/11/2017 Crossing appears to be in good condition. (DWR Sutter Yard-AFreitag)10/10/2016 Crossing appears to be in good condition.(DWR Sutter Yard - afreitag)4/18/2016 Crossing appears in good condition. No noticeable issues to report.5/7/2015 Crossing is in good condition. No noticeable issues to report.11/12/2014 Same as last inspection.5/13/2014 Same as last inspection.10/30/2103 Same as last inspection.5/22/2013 Same as last inspection. FIELD_STRUCT_DESC: 4-inch steel gas line through the levee, 30-inches below the crown. Carsonite marker located on the waterside (WS) shoulder and on road, 200 feet east of levee crossing (4-inch line authorized under Permit No. 14802, 1987 - Pacific Gas and Electric Company [PG&E]; 4-inch line replaces previous 3.5-inch line authorized under Permit No. 768, 1939 - PG&E). FS Date: 2/12/2019 3:01:00 PM					

LM Start	0.27	Rating **	M	Issue No.	62 (cont)
LM End	0.27	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_SP_2019_53669_78814.jpg



Overview of levee section looking towards HWY 20.

Photo 2 of 3 : UCIP_SP_2019_53669_78812.jpg



WS view: overview of crown.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	05/08/2019 05/08/2019	Makar Sokol

LM Start	0.27	Rating **	M	Issue No.	62 (cont)	
LM End	0.27	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.147956 °	39.147956 °	
				-121.829526 °	-121.829526 °	
DWR ID	16867					
Comment Code						
Inspector Comment						
FS_ID:53669 DS_ID:16867 EP_NO: 768 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: 02/12/2019 Need to request maintenance and inspection records to confirm condition of line through levee. Gas line marker previously located on the WS slope has been damaged, recommend replacing. Structure description has been updated based on the permit review of 14802 (dsid 16867) and 768 (dsid 25575). USACE PI issue references Permit No. 768 for this crossing correct Permit No. should be 14802. (O. Magana - DWR UCIP)4/11/2017 Crossing appears to be in good condition. (DWR Sutter Yard-AFreitag)10/10/2016 Crossing appears to be in good condition.(DWR Sutter Yard - afreitag)4/18/2016 Crossing appears in good condition. No noticeable issues to report.5/7/2015 Crossing is in good condition. No noticeable issues to report.11/12/2014 Same as last inspection.5/13/2014 Same as last inspection.10/30/2103 Same as last inspection.5/22/2013 Same as last inspection. FIELD_STRUCT_DESC: 4-inch steel gas line through the levee, 30-inches below the crown. Carsonite marker located on the waterside (WS) shoulder and on road, 200 feet east of levee crossing (4-inch line authorized under Permit No. 14802, 1987 - Pacific Gas and Electric Company [PG&E]; 4-inch line replaces previous 3.5-inch line authorized under Permit No. 768, 1939 - PG&E). FS Date: 2/12/2019 3:01:00 PM						

Photo 3 of 3 : UCIP_SP_2019_53669_78807.jpg



Overview of line through W Butte Road and shoulder (levee section).

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	05/08/2019 05/08/2019	Makar Sokol

LM Start	0.32	Rating **	M	Issue No.	63
LM End	0.32	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.147478 °	39.147478 °
				-121.828747 °	-121.828747 °
DWR ID	16890				

Comment Code

Inspector Comment

FS_ID:53738
DS_ID:16890
EP_NO: 13363
Repair Type: Non-Urgent
Crossing Status: Not Found
UCIP Comments: 02/12/2019 Modifications to the encroachment have been made since 2012. Unable to confirm if the line previously recorded in 2012 was removed or if a completely new line was added about 10-feet south of current location. Underground service alert (USA) flag recorded in 2012 shows AT&T line, permit indicates PT&T, and 2019 control box shows CVIC. Need to update permit with current owner. Need contact owner to clarify conduit alignment and modifications completed after 2012. (O. Magana - DWR UCIP)4/11/2017 Crossing appears to be in good condition. (DWR Sutter Yard-AFreitag)10/10/2016 Crossing appears to be in good condition.(DWR Sutter Yard - aFreitag)4/18/2016 Crossing appears in good condition. No noticeable issues to report.5/7/2015 Crossing is in good condition. No noticeable issues to report.11/12/2014 Same as last inspection.5/13/2014 Same as last inspection.10/30/2103 Same as last inspection.5/22/2013 Same as last inspection.
FIELD_STRUCT_DESC: 4-inch steel communications conduit through the levee, 4 feet below the crown. Design drawings available in permit. (4-inch line authorized under Permit No. 16850, 1998 - Pacific Bell; previous 4-inch line removed under Permit No. 13363 and 16647 in 1998).
FS Date: 2/12/2019 3:01:00 PM

LM Start	0.32	Rating **	M	Issue No.	63 (cont)
LM End	0.32	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_SP_2019_53738_78815.jpg



Overview of levee crown at line crossing, photo 1 of 2.

Photo 2 of 3 : UCIP_SP_2019_53738_78822.jpg



Overview of levee crown at line crossing, photo 2 of 2

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain			

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Levee Inspection Report By Mile - Spring 2019

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	05/08/2019 05/08/2019	Makar Sokol

LM Start	0.32	Rating **	M	Issue No.	63 (cont)	
LM End	0.32	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.147478 °	39.147478 °	
				-121.828747 °	-121.828747 °	
DWR ID	16890					
Comment Code						
Inspector Comment						
FS_ID:53738 DS_ID:16890 EP_NO: 13363 Repair Type: Non-Urgent Crossing Status: Not Found UCIP Comments: 02/12/2019 Modifications to the encroachment have been made since 2012. Unable to confirm if the line previously recorded in 2012 was removed or if a completely new line was added about 10-feet south of current location. Underground service alert (USA) flag recorded in 2012 shows AT&T line, permit indicates PT&T, and 2019 control box shows CVIC. Need to update permit with current owner. Need contact owner to clarify conduit alignment and modifications completed after 2012. (O. Magana - DWR UCIP)4/11/2017 Crossing appears to be in good condition. (DWR Sutter Yard-AFreitag)10/10/2016 Crossing appears to be in good condition.(DWR Sutter Yard - afreitag)4/18/2016 Crossing appears in good condition. No noticeable issues to report.5/7/2015 Crossing is in good condition. No noticeable issues to report.11/12/2014 Same as last inspection.5/13/2014 Same as last inspection.10/30/2103 Same as last inspection.5/22/2013 Same as last inspection. FIELD_STRUCT_DESC: 4-inch steel communications conduit through the levee, 4 feet below the crown. Design drawings available in permit. (4-inch line authorized under Permit No. 16850, 1998 - Pacific Bell; previous 4-inch line removed under Permit No. 13363 and 16647 in 1998). FS Date: 2/12/2019 3:01:00 PM						

Photo 3 of 3 : UCIP_SP_2019_53738_64778.jpg



Alignment painted on gravel at door of jeep.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	05/08/2019 05/08/2019	Makar Sokol

LM Start	0.32	Rating **	M	Issue No.	64
LM End	0.32	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.147463 °	39.147463 °
				-121.828716 °	-121.828716 °
DWR ID	16859				
Comment Code					
Inspector Comment					
FS_ID:53677					
DS_ID:16859					
EP_NO: 4795					
Repair Type: Non-Urgent					
Crossing Status: Indicator Found					
UCIP Comments: 02/12/2019 (O. Magana - DWR UCIP)01/10/2019					
Unable to determine line alignment through permit records. Need to					
confirm with owner. (O. Magana - DWR UCIP)					
4/11/2017 Unable to locate. (DWR Sutter Yard- AFreitag)10/10/2016					
Unable to locate.4/18/2016 Unable to locate.5/7/2015 Could not					
locate a marker for this crossing.11/12/2014 Same as last					
inspection.5/13/2014 Same as last inspection.10/30/2103 Same as					
last inspection.5/22/2013 Same as last inspection. Unable to					
locate.10/8/2012 Unable to locate any indicator of crossing. More					
research may be necessary.					
FIELD_STRUCT_DESC: 3-inch gas line of an unknown material along					
the landside (LS) toe, at an unknown depth. (3-inch line authorized					
under Permit No. 8590, 1973 - Pacific Gas and Electric Company					
[PG&E]). [Additional Reference(s): DWR Levee Log, 2005].					
FS Date: 2/12/2019 3:02:00 PM					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	05/08/2019 05/08/2019	Makar Sokol

LM Start	0.34	Rating **	M	Issue No.	65	
LM End	0.34	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			39.147328 °		39.147328 °
				-121.828452 °		-121.828452 °
DWR ID	16860					
Comment Code						
Inspector Comment						
FS_ID:53671 DS_ID:16860 EP_NO: 4795 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: 02/12/2019 (O. Magana - DWR UCIP)01/10/2019 Permit records indicate marker signs were to be placed over the gasline in the bypass channel and in the levee section - confirm in the field. (O. Magana - DWR UCIP) 4/11/2017 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)10/10/2016 Crosing appears to be in good condition.(DWR Sutter Yard - afreitag)4/18/2016 Crossing appears in good condition. No noticeable issues to report.5/7/2015 Crossing is in good condition. No noticeable issues to report.11/12/2014 Same as last inspection.5/13/2014 Same as last inspection.5/22/2013 Same as last inspection.10/30/2103 Same as last inspection. FIELD_STRUCT_DESC: 10-inch steel gas line through the levee, 4 feet below the crown. Pipe is 0.375 inches thick and soil proofed. Pressure gas line goes through the left bank, under the channel of Sutter Bypass, and right bank. (10-inch line authorized under Permit No. 4795, 1965 - Pacific Gas and Electric Company [PG&E]). [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 2/12/2019 3:02:00 PM						

LM Start	0.34	Rating **	M	Issue No.	65 (cont)
LM End	0.34	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_SP_2019_53671_78827.jpg



LV crown: assumed gasline alignment through levee (line goes through levee at an angle)

Photo 2 of 3 : UCIP_SP_2019_53671_78826.jpg



WS view: overview of WS. No visible marker found on WS.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	05/08/2019 05/08/2019	Makar Sokol

LM Start	0.34	Rating **	M	Issue No.	65 (cont)	
LM End	0.34	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.147328 °	39.147328 °	
				-121.828452 °	-121.828452 °	
DWR ID	16860					
Comment Code						
Inspector Comment						
FS_ID:53671 DS_ID:16860 EP_NO: 4795 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: 02/12/2019 (O. Magana - DWR UCIP)01/10/2019 Permit records indicate marker signs were to be placed over the gasoline in the bypass channel and in the levee section - confirm in the field. (O. Magana - DWR UCIP) 4/11/2017 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)10/10/2016 Crosing appears to be in good condition.(DWR Sutter Yard - afreitag)4/18/2016 Crossing appears in good condition. No noticeable issues to report.5/7/2015 Crossing is in good condition. No noticeable issues to report.11/12/2014 Same as last inspection.5/13/2014 Same as last inspection.5/22/2013 Same as last inspection.10/30/2103 Same as last inspection. FIELD_STRUCT_DESC: 10-inch steel gas line through the levee, 4 feet below the crown. Pipe is 0.375 inches thick and soil proofed. Pressure gas line goes through the left bank, under the channel of Sutter Bypass, and right bank. (10-inch line authorized under Permit No. 4795, 1965 - Pacific Gas and Electric Company [PG&E]). [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 2/12/2019 3:02:00 PM						

Photo 3 of 3 : UCIP_SP_2019_53671_65220.jpg



Possible vent on WS accross channel.

LM Start	0.36	Rating **	M	Issue No.	42
LM End	0.36	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.147183 °	39.147183 °
				-121.828142 °	-121.828142 °
DWR ID	DWR_ST0002_01_s_ 2017_42				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
Repair the erosion along the waterside toe.					

Photo 1 of 1 : SP_2019_ST0002_450_42_20190327_00009.jpg



View of the erosion along the waterside toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	05/08/2019 05/08/2019	Makar Sokol

LM Start	1.11	Rating **	M	Issue No.	46
LM End	1.11	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.140817 °	39.140817 °
				-121.816848 °	-121.816848 °
DWR ID	DWR_ST0002_01_s_2018_46				
Comment Code					
GA : Garbage					
Inspector Comment					
Remove the garbage from the waterside slope.					

Photo 1 of 1 : SP_2019_ST0002_450_46_20190327_00012.jpg



View of the garbage along the waterside slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	05/08/2019 05/08/2019	Makar Sokol

LM Start	1.12	Rating **	M	Issue No.	66
LM End	1.12	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.140868 °	39.140868 °
				-121.816644 °	-121.816644 °
DWR ID	16862				
Comment Code					
Inspector Comment					
FS_ID:53674 DS_ID:16862 EP_NO: 10932 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 02/12/2019 (O. Magana - DWR UCIP)4/11/2017 Riser knocked out of place on WS shoulder and no sign of the siphon breaker. Suspect it was buried. (DWR Sutter Yard- AFreitag)10/10/2016 WS CMP riser is still knocked out of place and siphon breaker is suspected to be buried.(DWR Sutter Yard - afreitag)4/18/2016 CMP riser is still knocked out of place and a siphon breaker cannot be found.5/7/2015 24in. cmp riser and siphon breaker were not found on the WS shoulder.11/12/2014 Same as last inspection.5/13/2014 Same as last inspection.10/30/2013 24in. cmp riser was pulled out of levee and there is no sign of a siphon breaker on WS shoulder.5/22/2013 24in. cmp riser on WS shoulder is full of garbage and dirt and should be cleaned out to inspect siphon breaker.10/8/2012 Pier has no walkway to access pump on pier. This is not necessarily an issue. FIELD_STRUCT_DESC: 16-inch coated steel irrigation pipe through the levee, 6.3 feet below the crown. Vertical pump mounted on a steel structure on the bank. Siphon breaker in a 24-inch corrugated metal pipe riser on the waterside (WS) slope. Concrete distribution box on the landside (LS). Power and communication joint pole (JP) on the WS shoulder. Original equipment in O&M. Hand drawings available in permit. (Original 16-inch O&M pipe removed in 1975 and replaced with a 16-inch pipe under Permit No. 10932, 1976 - Edward Nall) [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 315, May 1953 (Station 1094+80)]. FS Date: 2/12/2019 3:03:00 PM					

Photo 1 of 3 : UCIP_SP_2019_53674_78843.jpg



Overview of levee crown, photo taken d/s looking u/s towards crossing.

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	05/08/2019 05/08/2019	Makar Sokol

LM Start	1.12	Rating **	M	Issue No.	66 (cont)	
LM End	1.12	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.140868 °	39.140868 °	
				-121.816644 °	-121.816644 °	
DWR ID	16862					
Comment Code						
Inspector Comment						
FS_ID:53674 DS_ID:16862 EP_NO: 10932 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 02/12/2019 (O. Magana - DWR UCIP)4/11/2017 Riser knocked out of place on WS shoulder and no sign of the siphon breaker. Suspect it was buried. (DWR Sutter Yard- AFreitag)10/10/2016 WS CMP riser is still knocked out of place and siphon breaker is suspected to be buried.(DWR Sutter Yard - afreitag)4/18/2016 CMP riser is still knocked out of place and a siphon breaker cannot be found.5/7/2015 24in. cmp riser and siphon breaker were not found on the WS shoulder.11/12/2014 Same as last inspection.5/13/2014 Same as last inspection.10/30/2013 24in. cmp riser was pulled out of levee and there is no sign of a siphon breaker on WS shoulder.5/22/2013 24in. cmp riser on WS shoulder is full of garbage and dirt and should be cleaned out to inspect siphon breaker.10/8/2012 Pier has no walkway to access pump on pier. This is not necessarily an issue. FIELD_STRUCT_DESC: 16-inch coated steel irrigation pipe through the levee, 6.3 feet below the crown. Vertical pump mounted on a steel structure on the bank. Siphon breaker in a 24-inch corrugated metal pipe riser on the waterside (WS) slope. Concrete distribution box on the landside (LS). Power and communication joint pole (JP) on the WS shoulder. Original equipment in O&M. Hand drawings available in permit. (Original 16-inch O&M pipe removed in 1975 and replaced with a 16-inch pipe under Permit No. 10932, 1976 - Edward Nall) [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 315, May 1953 (Station 1094+80)]. FS Date: 2/12/2019 3:03:00 PM						

Photo 2 of 3 : UCIP_SP_2019_53674_78842.jpg



WS view: overview of WS, photo taken d/s looking u/s towards crossing.

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	05/08/2019 05/08/2019	Makar Sokol

LM Start	1.12	Rating **	M	Issue No.	66 (cont)	
LM End	1.12	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.140868 °	39.140868 °	
				-121.816644 °	-121.816644 °	
DWR ID	16862					
Comment Code						
Inspector Comment						
FS_ID:53674 DS_ID:16862 EP_NO: 10932 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 02/12/2019 (O. Magana - DWR UCIP)4/11/2017 Riser knocked out of place on WS shoulder and no sign of the siphon breaker. Suspect it was buried. (DWR Sutter Yard- AFreitag)10/10/2016 WS CMP riser is still knocked out of place and siphon breaker is suspected to be buried.(DWR Sutter Yard - afreitag)4/18/2016 CMP riser is still knocked out of place and a siphon breaker cannot be found.5/7/2015 24in. cmp riser and siphon breaker were not found on the WS shoulder.11/12/2014 Same as last inspection.5/13/2014 Same as last inspection.10/30/2013 24in. cmp riser was pulled out of levee and there is no sign of a siphon breaker on WS shoulder.5/22/2013 24in. cmp riser on WS shoulder is full of garbage and dirt and should be cleaned out to inspect siphon breaker.10/8/2012 Pier has no walkway to access pump on pier. This is not necessarily an issue. FIELD_STRUCT_DESC: 16-inch coated steel irrigation pipe through the levee, 6.3 feet below the crown. Vertical pump mounted on a steel structure on the bank. Siphon breaker in a 24-inch corrugated metal pipe riser on the waterside (WS) slope. Concrete distribution box on the landside (LS). Power and communication joint pole (JP) on the WS shoulder. Original equipment in O&M. Hand drawings available in permit. (Original 16-inch O&M pipe removed in 1975 and replaced with a 16-inch pipe under Permit No. 10932, 1976 - Edward Nall) [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 315, May 1953 (Station 1094+80)]. FS Date: 2/12/2019 3:03:00 PM						

Photo 3 of 3 : UCIP_SP_2019_53674_78845.jpg



WS view: soil disturbance where riser was previously located.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	05/08/2019 05/08/2019	Makar Sokol

LM Start	1.53	Rating **	U	Issue No.	57
LM End	1.53	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.137373 °	39.137373 °
				-121.810382 °	-121.810382 °
DWR ID	DWR_ST0002_01_f_2017_57				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
Repair the beaver hole along the waterside berm.					

Photo 1 of 1 : SP_2019_ST0002_450_57_20190327_00013.jpg



View of the beaver hole along the waterside berm.

LM Start	1.57	Rating **	U	Issue No.	58
LM End	1.57	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.137010 °	39.137010 °
				-121.809673 °	-121.809673 °
DWR ID	DWR_ST0002_01_f_2017_58				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
Repair the beaver hole along the waterside berm.					

Photo 1 of 1 : SP_2019_ST0002_450_58_20190327_00014.jpg



View of the beaver hole along the waterside berm.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	05/08/2019 05/08/2019	Makar Sokol

LM Start	1.60	Rating **	M	Issue No.	67	
LM End	1.60	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.136765 °	39.136765 °	
				-121.809285 °	-121.809285 °	
DWR ID	16863					
Comment Code						
Inspector Comment						
FS_ID:53734 DS_ID:16863 EP_NO: 3051 Repair Type: Non-Urgent Crossing Status: Not Found UCIP Comments: 02/12/2019 (O. Magana - DWR UCIP)01/11/2019 Measure pipe and standpipe to confirm size. (O. Magana - DWR UCIP) 4/11/2017 Unable to locate. (DWR Sutter Yard- A Freitag)10/10/2016 Unable to locate.(DWR Sutter Yard - a Freitag)4/18/2016 Unable to locate.5/7/2015 Unable to locate.11/12/2014 Same as last inspection. Unable to locate.5/13/2014 Same as last inspection.10/30/2103 Same as last inspection.5/22/2013 Same as last inspection. Unable to locate. FIELD_STRUCT_DESC: *ABANDONED* 18-inch steel irrigation pipe through the levee, 6.3 feet below the crown. Gate valve on the waterside (WS) slope. 24-inch concrete standpipe at toe of landside (LS) slope. Buried centrifugal pump on the bank. Unable to determine if applicant removed or abandoned crossing. Permit recordation indicates work abandoned, however, permit indicates pipe was to be removed completely from levee section. (no permit found authorizing 18-inch pipe; removal of 16-inch gate valve from existing pipe and plugging the pipe through the levee, leading to the abandoned Morehead Pumping Plant, was authorized under Permit No. 3051, 1959 - Edward E. Nall, page 12 of 13 shows 16-inch through levee and 30-inch standpipe on LS) [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 315, May 1953 (Station 1069+60)]. FS Date: 2/12/2019 3:04:00 PM						

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	05/08/2019 05/08/2019	Makar Sokol

LM Start	1.61	Rating **	U	Issue No.	61
LM End	1.61	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.136713 °	39.136713 °
				-121.809202 °	-121.809202 °
DWR ID	DWR_ST0002_01_f_2017_61				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
Repair the beaver hole along the waterside berm.					

Photo 1 of 1 : SP_2019_ST0002_450_61_20190327_00015.jpg



View of the beaver hole along the waterside berm.

LM Start	2.50	Rating **	M	Issue No.	68	
LM End	2.50	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.129247 °	39.129247 °	
				-121.795727 °	-121.795727 °	
DWR ID	16864					
Comment Code						
Inspector Comment						
FS_ID:53675 DS_ID:16864 EP_NO: 3890 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: 02/12/2019 (O. Magana - DWR UCIP)4/11/2017 Crossing appears to be in good condition. (DWR Sutter Yard-AFreitag)10/10/2016 Crossing appears to be in good condition.(DWR Sutter Yard - afreitag)4/18/2016 Crossing appears in good condition. No noticeable issues to report.5/7/2015 Crossing is in good condition. No noticeable issues to report.11/12/2014 Same as last inspection.5/13/2014 Same as last inspection.10/30/2103 Same as last inspection.5/22/2013 Same as last inspection. FIELD_STRUCT_DESC: 10.75-inch steel gas pipeline through the levee, 2.6 feet below the crown. Gas line markers located on the landside (LS) and the waterside (WS) toes. Gas valve in steel riser unit on the LS toe at edge of canal. Line crosses the channel and goes through both Sutter Bypass levees. Design drawings available. (10.75-inch line authorized under Permit No. 3890, 1962 - Pacific Gas and Electric Company [PG&E]). [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 2/12/2019 3:04:00 PM						

Photo 1 of 3 : UCIP_SP_2019_53675_78848.jpg



Overview of levee crown, photo taken d/s looking u/s towards crossing.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	05/08/2019 05/08/2019	Makar Sokol

LM Start	2.50	Rating **	M	Issue No.	68 (cont)	
LM End	2.50	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			39.129247 °	39.129247 °	
				-121.795727 °	-121.795727 °	
DWR ID	16864					

Comment Code

Inspector Comment

FS_ID:53675
DS_ID:16864
EP_NO: 3890
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: 02/12/2019 (O. Magana - DWR UCIP)4/11/2017 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)10/10/2016 Crossing appears to be in good condition.(DWR Sutter Yard - afreitag)4/18/2016 Crossing appears in good condition. No noticeable issues to report.5/7/2015 Crossing is in good condition. No noticeable issues to report.11/12/2014 Same as last inspection.5/13/2014 Same as last inspection.10/30/2103 Same as last inspection.5/22/2013 Same as last inspection.
FIELD_STRUCT_DESC: 10.75-inch steel gas pipeline through the levee, 2.6 feet below the crown. Gas line markers located on the landside (LS) and the waterside (WS) toes. Gas valve in steel riser unit on the LS toe at edge of canal. Line crosses the channel and goes through both Sutter Bypass levees. Design drawings available. (10.75-inch line authorized under Permit No. 3890, 1962 - Pacific Gas and Electric Company [PG&E]). [Additional Reference(s): DWR Levee Log, 2005].
FS Date: 2/12/2019 3:04:00 PM

LM Start	2.50	Rating **	M	Issue No.	68 (cont)
LM End	2.50	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_SP_2019_53675_78851.jpg



WS view: marker located on WS shoulder. Markers photographed in 2012 are no longer present.

Photo 3 of 3 : UCIP_SP_2019_53675_78849.jpg



LS view: marker indicating line crosses levee.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	05/08/2019 05/08/2019	Makar Sokol

LM Start	2.50	Rating **	M	Issue No.	69	
LM End	2.50	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.129229 °	39.129229 °	
				-121.795692 °	-121.795692 °	
DWR ID	16865					
Comment Code						
Inspector Comment						
FS_ID:53736 DS_ID:16865 EP_NO: 6905 Repair Type: Non-Urgent Crossing Status: Not Found UCIP Comments: 02/12/2019 (O. Magana - DWR UCIP)4/11/2017 Unable to locate.(DWR Sutter Yard- AFreitag)10/10/2016 Unable to locate.(DWR Sutter Yard - afreitag)4/18/2016 Unable to locate.5/7/2015 Unable to locate.11/12/2014 Same as last inspection. Unable to locate.5/13/2014 Same as last inspection.10/30/2103 Same as last inspection.5/22/2013 Same as last inspection. Unable to locate FIELD_STRUCT_DESC: 1 of 2: 2.5-inch steel telephone conduit through the levee, 2.5 feet below the crown. Design drawings available in permit. (two 2.5-inch conduits installed under Permit No. 6905, 1970 - Pacific Telephone & Telegraph Company [PT&T]). [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 2/12/2019 3:05:00 PM						

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	05/08/2019 05/08/2019	Makar Sokol

LM Start	2.50	Rating **	M	Issue No.	70
LM End	2.50	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		39.129229 °	39.129229 °	
			-121.795692 °	-121.795692 °	
DWR ID	16894				
Comment Code					
Inspector Comment					
FS_ID:53737 DS_ID:16894 EP_NO: 6905 Repair Type: Non-Urgent Crossing Status: Not Found UCIP Comments: 02/12/2019 (O. Magana - DWR UCIP)4/11/2017 Unable to locate. (DWR Sutter Yard- AFreitag)10/10/2016 Unable to locate.4/18/2016 Unable to locate.5/7/2015 Unable to locate.5/13/2014 Same as last inspection.11/12/2014 Same as last inspection. Unable to locate.10/30/2103 Same as last inspection.5/22/2013 Same as last inspection. Unable to locate. FIELD_STRUCT_DESC: 2 of 2: 2.5-inch steel telephone conduit through the levee, 2.5 feet below the crown. (two 2.5-inch conduits installed under Permit No. 6905, 1970 - Pacific Telephone and Telegraph Company [PT&T]). Design drawings available in permit. [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 2/12/2019 3:05:00 PM					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	05/08/2019 05/08/2019	Makar Sokol

LM Start	3.55	Rating **	M	Issue No.	71
LM End	3.55	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.120372 °	39.120372 °
				-121.779800 °	-121.779800 °
DWR ID	16880				
Comment Code					
Inspector Comment					
FS_ID:53682 DS_ID:16880 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 02/12/2019 (O. Magana - DWR UCIP)01/11/2019 Record has been updated to show pumping plant is still in use and not abandoned. (O. Magana - DWR UCIP) 4/11/2017 Not abandoned. good condition. (DWR Sutter Yard-AFreitag)10/10/2016 NOT ABANDONED. The old pumping plant was removed but the culverts are still used as a gravity drain to regulate the water level in the LS ditch.(DWR Sutter Yard - afreitag)4/18/2016 Crossing is in good condition. The culvert is not abandoned and is used as gravity drain for the LS ditch into the bypass channel.5/7/2015 Concrete culverts are still being used as gravity drains for the LS ditch.11/12/2014 Same as last inspection.5/13/2014 Same as last inspection.10/30/2103 Same as last inspection.5/22/2013 Concrete culvert is being used as gravity drain for LS ditch.10/8/2012 Flap gates left in open position. Unable to determine type of abandonment for concrete culverts. Contact inspector to determine type of abandonment. FIELD_STRUCT_DESC: [Pumping Plant No. 3] 1 of 2: 48-inch by 72-inch reinforced concrete drainage culvert through the levee, 30 feet below the crown. Slide gate in concrete well on the landside (LS) shoulder. Wood flap gate and concrete headwall on the waterside (WS) end. Abandoned State pumping plant on the LS. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 315, May 1953 (Station 966+30)]. FS Date: 2/12/2019 3:05:00 PM					

Photo 1 of 3 : UCIP_SP_2019_53682_78856.jpg



Overview of levee crown looking towards pumping station.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	05/08/2019 05/08/2019	Makar Sokol

LM Start	3.55	Rating **	M	Issue No.	71 (cont)	
LM End	3.55	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			39.120372 °	39.120372 °	
				-121.779800 °	-121.779800 °	
DWR ID	16880					
Comment Code						
Inspector Comment						
FS_ID:53682 DS_ID:16880 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 02/12/2019 (O. Magana - DWR UCIP)01/11/2019 Record has been updated to show pumping plant is still in use and not abandoned. (O. Magana - DWR UCIP) 4/11/2017 Not abandoned. good condition. (DWR Sutter Yard-AFreitag)10/10/2016 NOT ABANDONED. The old pumping plant was removed but the culverts are still used as a gravity drain to regulate the water level in the LS ditch.(DWR Sutter Yard - aFreitag)4/18/2016 Crossing is in good condition. The culvert is not abandoned and is used as gravity drain for the LS ditch into the bypass channel.5/7/2015 Concrete culverts are still being used as gravity drains for the LS ditch.11/12/2014 Same as last inspection.5/13/2014 Same as last inspection.10/30/2103 Same as last inspection.5/22/2013 Concrete culvert is being used as gravity drain for LS ditch.10/8/2012 Flap gates left in open position. Unable to determine type of abandonment for concrete culverts. Contact inspector to determine type of abandonment. FIELD_STRUCT_DESC: [Pumping Plant No. 3] 1 of 2: 48-inch by 72-inch reinforced concrete drainage culvert through the levee, 30 feet below the crown. Slide gate in concrete well on the landside (LS) shoulder. Wood flap gate and concrete headwall on the waterside (WS) end. Abandoned State pumping plant on the LS. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 315, May 1953 (Station 966+30)]. FS Date: 2/12/2019 3:05:00 PM						

Photo 2 of 3 : UCIP_SP_2019_53682_78857.jpg



LS view: slide gate valves located on LS shoulder.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	05/08/2019 05/08/2019	Makar Sokol

LM Start	3.55	Rating **	M	Issue No.	71 (cont)	
LM End	3.55	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			39.120372 °	39.120372 °	
				-121.779800 °	-121.779800 °	
DWR ID	16880					
Comment Code						
Inspector Comment						
FS_ID:53682 DS_ID:16880 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 02/12/2019 (O. Magana - DWR UCIP)01/11/2019 Record has been updated to show pumping plant is still in use and not abandoned. (O. Magana - DWR UCIP) 4/11/2017 Not abandoned. good condition. (DWR Sutter Yard-AFreitag)10/10/2016 NOT ABANDONED. The old pumping plant was removed but the culverts are still used as a gravity drain to regulate the water level in the LS ditch.(DWR Sutter Yard - aFreitag)4/18/2016 Crossing is in good condition. The culvert is not abandoned and is used as gravity drain for the LS ditch into the bypass channel.5/7/2015 Concrete culverts are still being used as gravity drains for the LS ditch.11/12/2014 Same as last inspection.5/13/2014 Same as last inspection.10/30/2103 Same as last inspection.5/22/2013 Concrete culvert is being used as gravity drain for LS ditch.10/8/2012 Flap gates left in open position. Unable to determine type of abandonment for concrete culverts. Contact inspector to determine type of abandonment. FIELD_STRUCT_DESC: [Pumping Plant No. 3] 1 of 2: 48-inch by 72-inch reinforced concrete drainage culvert through the levee, 30 feet below the crown. Slide gate in concrete well on the landside (LS) shoulder. Wood flap gate and concrete headwall on the waterside (WS) end. Abandoned State pumping plant on the LS. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 315, May 1953 (Station 966+30)]. FS Date: 2/12/2019 3:05:00 PM						

Photo 3 of 3 : UCIP_SP_2019_53682_64815.jpg



Slide gates on LS shoulder.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	05/08/2019 05/08/2019	Makar Sokol

LM Start	3.55	Rating **	M	Issue No.	72
LM End	3.55	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.120358 °	39.120358 °
				-121.779775 °	-121.779775 °
DWR ID	16895				
Comment Code					
Inspector Comment					
FS_ID:53681 DS_ID:16895 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 02/12/2019 (O. Magana - DWR UCIP)01/11/2019 Record has been updated to show pumping plant is still in use and not abandoned. (O. Magana - DWR UCIP) 4/11/2017 Not abandoned. Good condition. (DWR Sutter Yard-AFreitag)10/10/2016 NOT ABANDONED. The old pumping plant was removed but the culverts are still used as a gravity drain to regulate the water level in the LS ditch.(DWR Sutter Yard - afreitag)4/18/2016 Crossing is in good condition. The culvert is not abandoned and is used as gravity drain for the LS ditch into the bypass channel.5/7/2015 Concrete culverst still being used as gravity drains for LS ditch.11/12/2014 Same as last inspection.5/13/2014 Same as last inspection.10/30/2103 Same as last inspection.5/22/2013 Concrete culvert is being used as gravity drain for LS ditch.10/8/2012 Flap gates in open position. Need to determine type of abandonment. Contact inspector to determine abandonment. FIELD_STRUCT_DESC: [Pumping Plant No. 3] 2 of 2: 48-inch by 72-inch reinforced concrete drainage culvert through the levee, 30 feet below the crown. Slide gate in concrete well on the landside (LS) shoulder. Wood flap gate and concrete headwall on the waterside (WS) end. Abandoned State pumping plant on the LS. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 315, May 1953 (Station 966+30)]. FS Date: 2/12/2019 3:06:00 PM					

Photo 1 of 3 : UCIP_SP_2019_53681_78863.jpg



Overview of levee crown looking towards pumping station.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	05/08/2019 05/08/2019	Makar Sokol

LM Start	3.55	Rating **	M	Issue No.	72 (cont)	
LM End	3.55	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			39.120358 °	39.120358 °	
				-121.779775 °	-121.779775 °	
DWR ID	16895					
Comment Code						
Inspector Comment						
FS_ID:53681 DS_ID:16895 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 02/12/2019 (O. Magana - DWR UCIP)01/11/2019 Record has been updated to show pumping plant is still in use and not abandoned. (O. Magana - DWR UCIP) 4/11/2017 Not abandoned. Good condition. (DWR Sutter Yard-AFreitag)10/10/2016 NOT ABANDONED. The old pumping plant was removed but the culverts are still used as a gravity drain to regulate the water level in the LS ditch.(DWR Sutter Yard - afreitag)4/18/2016 Crossing is in good condition. The culvert is not abandoned and is used as gravity drain for the LS ditch into the bypass channel.5/7/2015 Concrete culverst still being used as gravity drains for LS ditch.11/12/2014 Same as last inspection.5/13/2014 Same as last inspection.10/30/2103 Same as last inspection.5/22/2013 Concrete culvert is being used as gravity drain for LS ditch.10/8/2012 Flap gates in open position. Need to determine type of abandonment. Contact inspector to determine abandonment. FIELD_STRUCT_DESC: [Pumping Plant No. 3] 2 of 2: 48-inch by 72-inch reinforced concrete drainage culvert through the levee, 30 feet below the crown. Slide gate in concrete well on the landside (LS) shoulder. Wood flap gate and concrete headwall on the waterside (WS) end. Abandoned State pumping plant on the LS. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 315, May 1953 (Station 966+30)]. FS Date: 2/12/2019 3:06:00 PM						

Photo 2 of 3 : UCIP_SP_2019_53681_78866.jpg



Overview of levee crown, photo taken at crossings looking u/s.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	05/08/2019 05/08/2019	Makar Sokol

LM Start	3.55	Rating **	M	Issue No.	72 (cont)	
LM End	3.55	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			39.120358 °	39.120358 °	
				-121.779775 °	-121.779775 °	
DWR ID	16895					
Comment Code						
Inspector Comment						
FS_ID:53681 DS_ID:16895 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 02/12/2019 (O. Magana - DWR UCIP)01/11/2019 Record has been updated to show pumping plant is still in use and not abandoned. (O. Magana - DWR UCIP) 4/11/2017 Not abandoned. Good condition. (DWR Sutter Yard-AFreitag)10/10/2016 NOT ABANDONED. The old pumping plant was removed but the culverts are still used as a gravity drain to regulate the water level in the LS ditch.(DWR Sutter Yard - afreitag)4/18/2016 Crossing is in good condition. The culvert is not abandoned and is used as gravity drain for the LS ditch into the bypass channel.5/7/2015 Concrete culverst still being used as gravity drains for LS ditch.11/12/2014 Same as last inspection.5/13/2014 Same as last inspection.10/30/2103 Same as last inspection.5/22/2013 Concrete culvert is being used as gravity drain for LS ditch.10/8/2012 Flap gates in open position. Need to determine type of abandonment. Contact inspector to determine abandonment. FIELD_STRUCT_DESC: [Pumping Plant No. 3] 2 of 2: 48-inch by 72-inch reinforced concrete drainage culvert through the levee, 30 feet below the crown. Slide gate in concrete well on the landside (LS) shoulder. Wood flap gate and concrete headwall on the waterside (WS) end. Abandoned State pumping plant on the LS. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 315, May 1953 (Station 966+30)]. FS Date: 2/12/2019 3:06:00 PM						

Photo 3 of 3 : UCIP_SP_2019_53681_78864.jpg



LS view: slide gate valves located on LS shoulder.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	05/08/2019 05/08/2019	Makar Sokol

LM Start	4.81	Rating **	M	Issue No.	26
LM End	4.81	Issue Type +	Ob	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Cracking			39.108110 °	39.108110 °
				-121.762623 °	-121.762623 °
DWR ID	DWR_ST0002_01_f_2016_26				
Comment Code					
CR1 : Monitor and have inspected by geotechnical engineer.					
Inspector Comment					
Longitudinal cracks caused by fat clay.					

Photo 1 of 1 : SP_2019_ST0002_450_26_20190327_00005.jpg



View of the longitudinal cracks.

LM Start	5.19	Rating **	M	Issue No.	45
LM End	5.19	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			39.103368 °	39.103368 °
				-121.758760 °	-121.758760 °
DWR ID	DWR_ST0002_01_s_2018_45				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					

Photo 1 of 1 : SP_2019_ST0002_450_45_20190327_00011.jpg



View of the vehicle traffic along the waterside slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	05/08/2019 05/08/2019	Makar Sokol

LM Start	7.47	Rating **	M	Issue No.	73
LM End	7.47	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.072292 °	39.072292 °
				-121.744907 °	-121.744907 °
DWR ID	19985				
Comment Code					
Inspector Comment					
FS_ID:53888 DS_ID:19985 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 05/01/2019 (O. Magana - DWR UCIP)04/11/2017 Crossing appears to be in good condition. (DWR Sutter Yard-AFreitag)10/10/2016 Crossing appears to be in good condition.(DWR Sutter Yard - afreitag)04/18/2016 Crossing appears in good condition. No noticeable issues to report.05/07/2015 Crossing is in good condition. No noticeable issues to report.11/12/2014 Same as last inspection.05/13/2014 Same as last inspection.10/30/2013 Same as last inspection.05/22/2013 Same as last inspection.10/8/2012 No Permit identified for crossing. FIELD_STRUCT_DESC: Steel gas line of an unknown size crosses the levee at an unknown depth. Carsonite sign located on the waterside (WS) shoulder and at the landside (LS) toe across the toe ditch. Line is owned by Calpine Pipeline Company. No permit has been identified since crossing was field discovered in 2012. FS Date: 5/1/2019 2:22:48 PM					

Photo 1 of 3 : UCIP_SP_2019_53888_65213.jpg



Gasline marker on WS shoulder.

LM Start	7.47	Rating **	M	Issue No.	73 (cont)
LM End	7.47	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_SP_2019_53888_65212.jpg



Gasline marker on LS toe east of ditch.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	05/08/2019 05/08/2019	Makar Sokol

LM Start	7.47	Rating **	M	Issue No.	73 (cont)	
LM End	7.47	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.072292 °	39.072292 °	
				-121.744907 °	-121.744907 °	
DWR ID	19985					
Comment Code						
Inspector Comment						
FS_ID:53888 DS_ID:19985 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 05/01/2019 (O. Magana - DWR UCIP)04/11/2017 Crossing appears to be in good condition. (DWR Sutter Yard-AFreitag)10/10/2016 Crossing appears to be in good condition.(DWR Sutter Yard - afreitag)04/18/2016 Crossing appears in good condition. No noticeable issues to report.05/07/2015 Crossing is in good condition. No noticeable issues to report.11/12/2014 Same as last inspection.05/13/2014 Same as last inspection.10/30/2013 Same as last inspection.05/22/2013 Same as last inspection.10/8/2012 No Permit identified for crossing. FIELD_STRUCT_DESC: Steel gas line of an unknown size crosses the levee at an unknown depth. Carsonite sign located on the waterside (WS) shoulder and at the landside (LS) toe across the toe ditch. Line is owned by Calpine Pipeline Company. No permit has been identified since crossing was field discovered in 2012. FS Date: 5/1/2019 2:22:48 PM						

Photo 3 of 3 : UCIP_SP_2019_53888_76970.jpg



Close up of marker

LM Start	7.83	Rating **	A/W	Issue No.	34
LM End	7.83	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.067299 °	39.067299 °
				-121.742851 °	-121.742851 °
DWR ID	DWR_ST0002_01_f_2016_34				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					

Photo 1 of 1 : SP_2019_ST0002_450_34_20190327_00007.jpg



View of the erosion along the waterside toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	05/08/2019 05/08/2019	Makar Sokol

LM Start	7.90	Rating **	A/W	Issue No.	41
LM End	8.66	Issue Type +	Ob	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			39.066360 °	39.055830 °
				-121.742320 °	-121.738090 °
DWR ID	DWR_ST0002_01_f_2017_41				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:					
Site ID No:175					
Site Designation:FSRP-13-65					
Repair Type: Seepage					
Rating:					
Field Date:					
Notes:					

No Photos

LM Start	8.14	Rating **	M	Issue No.	74
LM End	8.14	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.062976 °	39.062976 °
				-121.741027 °	-121.741027 °
DWR ID	19984				
Comment Code					
Inspector Comment					
FS_ID:53889					
DS_ID:19984					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: 05/01/2019 (O. Magana - DWR UCIP)04/11/2017					
Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)10/10/2016 Crossing appears to be in good condition.(DWR Sutter Yard - afreitag)04/18/2016 Crossing appears in good condition. No noticeable issues to report.05/07/2015 Crossing is in good condition. No noticeable issues to report.11/12/2014 Same as last inspection.05/13/2014 Same as last inspection.10/30/2013 Same as last inspection.05/22/2013 Same as last inspection.10/8/2012 No permit or purpose identified for this crossing. FIELD_STRUCT_DESC: 2.5-inch steel pipe of an unknown purpose bored under the levee, at an unknown depth. Pipe has locked cap on the landside (LS) toe. Steel I-beam stream crossing on the LS toe marks the location of the pipe. Waterside (WS) marker of pipe crossing is not identified. No permit has been identified since crossing was field discovered in 2012. FS Date: 5/1/2019 2:23:35 PM					

Photo 1 of 2 : UCIP_SP_2019_53889_65215.jpg



Pipe at steel i-beam crossing in ditch at LS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	05/08/2019 05/08/2019	Makar Sokol

LM Start	8.14	Rating **	M	Issue No.	74 (cont)	
LM End	8.14	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			39.062976 °		39.062976 °
				-121.741027 °		-121.741027 °
DWR ID	19984					
Comment Code						
Inspector Comment						
FS_ID:53889 DS_ID:19984 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 05/01/2019 (O. Magana - DWR UCIP)04/11/2017 Crossing appears to be in good condition. (DWR Sutter Yard-AFreitag)10/10/2016 Crossing appears to be in good condition.(DWR Sutter Yard - afreitag)04/18/2016 Crossing appears in good condition. No noticeable issues to report.05/07/2015 Crossing is in good condition. No noticeable issues to report.11/12/2014 Same as last inspection.05/13/2014 Same as last inspection.10/30/2013 Same as last inspection.05/22/2013 Same as last inspection.10/8/2012 No permit or purpose identified for this crossing. FIELD_STRUCT_DESC: 2.5-inch steel pipe of an unknown purpose bored under the levee, at an unknown depth. Pipe has locked cap on the landside (LS) toe. Steel I-beam stream crossing on the LS toe marks the location of the pipe. Waterside (WS) marker of pipe crossing is not identified. No permit has been identified since crossing was field discovered in 2012. FS Date: 5/1/2019 2:23:35 PM						

Photo 2 of 2 : UCIP_SP_2019_53889_65214.jpg



Pipe at steel i-beam crossing in ditch at LS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	05/08/2019 05/08/2019	Makar Sokol

LM Start	10.28	Rating **	M	Issue No.	75
LM End	10.28	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.033522 °	39.033522 °
				-121.728927 °	-121.728927 °
DWR ID	16884				

Comment Code

Inspector Comment

FS_ID:53875
DS_ID:16884
EP_NO: 14455
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: 05/01/2019 (O. Magana - DWR UCIP)10/04/2018 Crossing has been downgraded from Urgent to Non-Urgent. Slopes are stable. WS toe was stabilized with rock. Need to contact utility owner to determine the status of the line. Unable to determine if the line is abandoned or active therefore crossing remains classified as a Non-Urgent issue. (O. Magana - DWR UCIP)
4/11/2017 The damage to the levee toe was repaired by Sutter Maintenance Yard. The hole was filled in and compacted with rock. The repairs have not yet been made to the gas line by the gas line owners but the damage does not affect the integrity of the levee or bank. Photos updated. (DWR Sutter Yard- AFreitag)10/18/2016 it is unknown if the damage to the levee toe from the farmer getting his tractor stuck has been repaired (DWR UCIP - thatch)
10/10/2016 Crossing appears to be in good condition but im not sure if the damaged pipe section at the WS berm was ever repaired. (DWR Sutter Yard - afreitag)4/18/2016 Gas line was damaged at the WS berm due to a farmer getting his tractor stuck. Gas company is aware of the damage and will be doing repairs sometime this summer. Damage should not affect the integrity of the levee. (DWR Sutter Yard - afreitag)5/7/2015 Marker on WS broken. (DWR Sutter Yard - afreitag)11/12/2014 Same as last inspection. (DWR Sutter Yard - afreitag)5/13/2014 Same as last inspection. (DWR Sutter Yard - afreitag)10/30/2013 Same as last inspection. (DWR Sutter Yard - afreitag)5/22/2013 Carsonite marker on WS shoulder is broken and should be replaced. (DWR Sutter Yard - afreitag)
FIELD_STRUCT_DESC: 1 of 3: 4.5-inch steel natural gas pipeline through the levee, 2 feet below the crown. Pipes were placed in same trench, 1 foot apart. Gas line markers located on the landside (LS) toe and the waterside (WS) shoulder. Owner listed on markers is California Resources Corporation (CRC) and can be reached in case of emergency at 1-661-763-6363. For dig alert, call 811 or USA North 1-800-227-2600. (underground natural gas pipeline across Sutter Bypass and through both levees authorized under Permit No. 14455, 1986 - Depco, Inc.; name and ownership change for underground natural gas line was authorized under Permit No. 14455-1, 2016 - California Resources Production Cooperation [CRC]).
FS Date: 5/1/2019 2:13:58 PM

Photo 1 of 3 : UCIP_SP_2019_53875_65217.jpg



Gasline markers on LS toe .

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	05/08/2019 05/08/2019	Makar Sokol

LM Start	10.28	Rating **	M	Issue No.	75 (cont)	
LM End	10.28	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.033522 °	39.033522 °	
				-121.728927 °	-121.728927 °	
DWR ID	16884					

Comment Code

Inspector Comment

FS_ID:53875
DS_ID:16884
EP_NO: 14455
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: 05/01/2019 (O. Magana - DWR UCIP)10/04/2018 Crossing has been downgraded from Urgent to Non-Urgent. Slopes are stable. WS toe was stabilized with rock. Need to contact utility owner to determine the status of the line. Unable to determine if the line is abandoned or active therefore crossing remains classified as a Non-Urgent issue. (O. Magana - DWR UCIP)
4/11/2017 The damage to the levee toe was repaired by Sutter Maintenance Yard. The hole was filled in and compacted with rock. The repairs have not yet been made to the gas line by the gas line owners but the damage does not affect the integrity of the levee or bank. Photos updated. (DWR Sutter Yard- AFreitag)10/18/2016 it is unknown if the damage to the levee toe from the farmer getting his tractor stuck has been repaired (DWR UCIP - thatch)
10/10/2016 Crossing appears to be in good condition but im not sure if the damaged pipe section at the WS berm was ever repaired. (DWR Sutter Yard - afreitag)4/18/2016 Gas line was damaged at the WS berm due to a farmer getting his tractor stuck. Gas company is aware of the damage and will be doing repairs sometime this summer. Damage should not affect the integrity of the levee. (DWR Sutter Yard - afreitag)5/7/2015 Marker on WS broken. (DWR Sutter Yard - afreitag)11/12/2014 Same as last inspection. (DWR Sutter Yard - afreitag)5/13/2014 Same as last inspection. (DWR Sutter Yard - afreitag)10/30/2013 Same as last inspection. (DWR Sutter Yard - afreitag)5/22/2013 Carsonite marker on WS shoulder is broken and should be replaced. (DWR Sutter Yard - afreitag)
FIELD_STRUCT_DESC: 1 of 3: 4.5-inch steel natural gas pipeline through the levee, 2 feet below the crown. Pipes were placed in same trench, 1 foot apart. Gas line markers located on the landside (LS) toe and the waterside (WS) shoulder. Owner listed on markers is California Resources Corporation (CRC) and can be reached in case of emergency at 1-661-763-6363. For dig alert, call 811 or USA North 1-800-227-2600. (underground natural gas pipeline across Sutter Bypass and through both levees authorized under Permit No. 14455, 1986 - Depco, Inc.; name and ownership change for underground natural gas line was authorized under Permit No. 14455-1, 2016 - California Resources Production Cooperation [CRC]).
FS Date: 5/1/2019 2:13:58 PM

Photo 2 of 3 : UCIP_SP_2019_53875_65216.jpg



Gasline markers on WS shoulder.

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	05/08/2019 05/08/2019	Makar Sokol

LM Start	10.28	Rating **	M	Issue No.	75 (cont)
LM End	10.28	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.033522 °	39.033522 °
				-121.728927 °	-121.728927 °
DWR ID	16884				

Comment Code

Inspector Comment

FS_ID:53875
DS_ID:16884
EP_NO: 14455
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: 05/01/2019 (O. Magana - DWR UCIP)10/04/2018 Crossing has been downgraded from Urgent to Non-Urgent. Slopes are stable. WS toe was stabilized with rock. Need to contact utility owner to determine the status of the line. Unable to determine if the line is abandoned or active therefore crossing remains classified as a Non-Urgent issue. (O. Magana - DWR UCIP)
4/11/2017 The damage to the levee toe was repaired by Sutter Maintenance Yard. The hole was filled in and compacted with rock. The repairs have not yet been made to the gas line by the gas line owners but the damage does not affect the integrity of the levee or bank. Photos updated. (DWR Sutter Yard- AFreitag)10/18/2016 it is unknown if the damage to the levee toe from the farmer getting his tractor stuck has been repaired (DWR UCIP - thatch)
10/10/2016 Crossing appears to be in good condition but im not sure if the damaged pipe section at the WS berm was ever repaired. (DWR Sutter Yard - afreitag)4/18/2016 Gas line was damaged at the WS berm due to a farmer getting his tractor stuck. Gas company is aware of the damage and will be doing repairs sometime this summer. Damage should not affect the integrity of the levee. (DWR Sutter Yard - afreitag)5/7/2015 Marker on WS broken. (DWR Sutter Yard - afreitag)11/12/2014 Same as last inspection. (DWR Sutter Yard - afreitag)5/13/2014 Same as last inspection. (DWR Sutter Yard - afreitag)10/30/2013 Same as last inspection. (DWR Sutter Yard - afreitag)5/22/2013 Carsonite marker on WS shoulder is broken and should be replaced. (DWR Sutter Yard - afreitag)
FIELD_STRUCT_DESC: 1 of 3: 4.5-inch steel natural gas pipeline through the levee, 2 feet below the crown. Pipes were placed in same trench, 1 foot apart. Gas line markers located on the landside (LS) toe and the waterside (WS) shoulder. Owner listed on markers is California Resources Corporation (CRC) and can be reached in case of emergency at 1-661-763-6363. For dig alert, call 811 or USA North 1-800-227-2600. (underground natural gas pipeline across Sutter Bypass and through both levees authorized under Permit No. 14455, 1986 - Depco, Inc.; name and ownership change for underground natural gas line was authorized under Permit No. 14455-1, 2016 - California Resources Production Cooperation [CRC]).
FS Date: 5/1/2019 2:13:58 PM

Photo 3 of 3 : UCIP_SP_2019_53875_74958.jpg



Damaged gas lines at the WS berm.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	05/08/2019 05/08/2019	Makar Sokol

LM Start	10.28	Rating **	M	Issue No.	76
LM End	10.28	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.033519 °	39.033519 °
				-121.728926 °	-121.728926 °
DWR ID	16899				

Comment Code

Inspector Comment

FS_ID:53876
DS_ID:16899
EP_NO: 14455
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: 05/01/2019 (O. Magana - DWR UCIP)10/04/2018 Crossing has been downgraded from Urgent to Non-Urgent. Slopes are stable. WS toe was stabilized with rock. Need to contact utility owner to determine the status of the line. Unable to determine if the line is abandoned or active therefore crossing remains classified as a Non-Urgent issue. (O. Magana - DWR UCIP)
4/11/2017 The damage to the levee toe was repaired by Sutter Maintenance Yard. The hole was filled in and compacted with rock. The repairs have not yet been made to the gas line by the gas line owners but the damage does not affect the integrity of the levee or bank. Photos Updated. (DWR Sutter Yard- AFreitag)10/18/2016 it is unknown if the damage to the levee toe from the farmer getting his tractor stuck has been repaired (DWR UCIP - thatch)
10/10/2016 Crossing appears to be in good condition but im not sure if the damaged pipe section at the WS berm was ever repaired. (DWR Sutter Yard - afreitag)4/18/2016 Gas line was damaged at the WS berm due to a farmer getting his tractor stuck. Gas company is aware of the damage and will be doing repairs sometime this summer. Damage should not affect the integrity of the levee. (DWR Sutter Yard - afreitag)5/7/2015 Marker on WS broken. (DWR Sutter Yard - afreitag)11/12/2014 Same as last inspection. (DWR Sutter Yard - afreitag)5/13/2014 Same as last inspection. (DWR Sutter Yard - afreitag)10/30/2013 Same as last inspection. (DWR Sutter Yard - afreitag)5/22/2013 Carsonite marker on WS shoulder is broken and should be replaced. (DWR Sutter Yard - afreitag)
FIELD_STRUCT_DESC: 2 of 3: 4.5-inch steel natural gas pipeline through the levee, 2 feet below the crown. Pipes were placed in same trench, 1 foot apart. Gas line markers located on the landside (LS) toe and the waterside (WS) shoulder. Owner listed on markers is California Resources Corporation (CRC) and can be reached in case of emergency at 1-661-763-6363. For dig alert, call 811 or USA North 1-800-227-2600. (underground natural gas pipeline across Sutter Bypass and through both levees authorized under Permit No. 14455, 1986 - Depco, Inc.; name and ownership change for underground natural gas line was authorized under Permit No. 14455-1, 2016 - California Resources Production Cooperation [CRC]).
FS Date: 5/1/2019 2:14:53 PM

Photo 1 of 3 : UCIP_SP_2019_53876_65219.jpg



Gasline markers on LS toe.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	05/08/2019 05/08/2019	Makar Sokol

LM Start	10.28	Rating **	M	Issue No.	76 (cont)	
LM End	10.28	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.033519 °	39.033519 °	
				-121.728926 °	-121.728926 °	
DWR ID	16899					

Comment Code

Inspector Comment

FS_ID:53876
DS_ID:16899
EP_NO: 14455
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: 05/01/2019 (O. Magana - DWR UCIP)10/04/2018 Crossing has been downgraded from Urgent to Non-Urgent. Slopes are stable. WS toe was stabilized with rock. Need to contact utility owner to determine the status of the line. Unable to determine if the line is abandoned or active therefore crossing remains classified as a Non-Urgent issue. (O. Magana - DWR UCIP)
4/11/2017 The damage to the levee toe was repaired by Sutter Maintenance Yard. The hole was filled in and compacted with rock. The repairs have not yet been made to the gas line by the gas line owners but the damage does not affect the integrity of the levee or bank. Photos Updated. (DWR Sutter Yard- AFreitag)10/18/2016 it is unknown if the damage to the levee toe from the farmer getting his tractor stuck has been repaired (DWR UCIP - thatch)
10/10/2016 Crossing appears to be in good condition but im not sure if the damaged pipe section at the WS berm was ever repaired. (DWR Sutter Yard - afreitag)4/18/2016 Gas line was damaged at the WS berm due to a farmer getting his tractor stuck. Gas company is aware of the damage and will be doing repairs sometime this summer. Damage should not affect the integrity of the levee. (DWR Sutter Yard - afreitag)5/7/2015 Marker on WS broken. (DWR Sutter Yard - afreitag)11/12/2014 Same as last inspection. (DWR Sutter Yard - afreitag)5/13/2014 Same as last inspection. (DWR Sutter Yard - afreitag)10/30/2013 Same as last inspection. (DWR Sutter Yard - afreitag)5/22/2013 Carsonite marker on WS shoulder is broken and should be replaced. (DWR Sutter Yard - afreitag)
FIELD_STRUCT_DESC: 2 of 3: 4.5-inch steel natural gas pipeline through the levee, 2 feet below the crown. Pipes were placed in same trench, 1 foot apart. Gas line markers located on the landside (LS) toe and the waterside (WS) shoulder. Owner listed on markers is California Resources Corporation (CRC) and can be reached in case of emergency at 1-661-763-6363. For dig alert, call 811 or USA North 1-800-227-2600. (underground natural gas pipeline across Sutter Bypass and through both levees authorized under Permit No. 14455, 1986 - Depco, Inc.; name and ownership change for underground natural gas line was authorized under Permit No. 14455-1, 2016 - California Resources Production Cooperation [CRC]).
FS Date: 5/1/2019 2:14:53 PM

Photo 2 of 3 : UCIP_SP_2019_53876_65218.jpg



Gasline markers on WS shoulder.

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	05/08/2019 05/08/2019	Makar Sokol

LM Start	10.28	Rating **	M	Issue No.	76 (cont)
LM End	10.28	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.033519 °	39.033519 °
				-121.728926 °	-121.728926 °
DWR ID	16899				

Comment Code

Inspector Comment

FS_ID:53876
DS_ID:16899
EP_NO: 14455
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: 05/01/2019 (O. Magana - DWR UCIP)10/04/2018 Crossing has been downgraded from Urgent to Non-Urgent. Slopes are stable. WS toe was stabilized with rock. Need to contact utility owner to determine the status of the line. Unable to determine if the line is abandoned or active therefore crossing remains classified as a Non-Urgent issue. (O. Magana - DWR UCIP)
4/11/2017 The damage to the levee toe was repaired by Sutter Maintenance Yard. The hole was filled in and compacted with rock. The repairs have not yet been made to the gas line by the gas line owners but the damage does not affect the integrity of the levee or bank. Photos Updated. (DWR Sutter Yard- AFreitag)10/18/2016 it is unknown if the damage to the levee toe from the farmer getting his tractor stuck has been repaired (DWR UCIP - thatch)
10/10/2016 Crossing appears to be in good condition but im not sure if the damaged pipe section at the WS berm was ever repaired. (DWR Sutter Yard - afreitag)4/18/2016 Gas line was damaged at the WS berm due to a farmer getting his tractor stuck. Gas company is aware of the damage and will be doing repairs sometime this summer. Damage should not affect the integrity of the levee. (DWR Sutter Yard - afreitag)5/7/2015 Marker on WS broken. (DWR Sutter Yard - afreitag)11/12/2014 Same as last inspection. (DWR Sutter Yard - afreitag)5/13/2014 Same as last inspection. (DWR Sutter Yard - afreitag)10/30/2013 Same as last inspection. (DWR Sutter Yard - afreitag)5/22/2013 Carsonite marker on WS shoulder is broken and should be replaced. (DWR Sutter Yard - afreitag)
FIELD_STRUCT_DESC: 2 of 3: 4.5-inch steel natural gas pipeline through the levee, 2 feet below the crown. Pipes were placed in same trench, 1 foot apart. Gas line markers located on the landside (LS) toe and the waterside (WS) shoulder. Owner listed on markers is California Resources Corporation (CRC) and can be reached in case of emergency at 1-661-763-6363. For dig alert, call 811 or USA North 1-800-227-2600. (underground natural gas pipeline across Sutter Bypass and through both levees authorized under Permit No. 14455, 1986 - Depco, Inc.; name and ownership change for underground natural gas line was authorized under Permit No. 14455-1, 2016 - California Resources Production Cooperation [CRC]).
FS Date: 5/1/2019 2:14:53 PM

Photo 3 of 3 : UCIP_SP_2019_53876_74959.jpg



Damaged gas lines at the WS berm.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	05/08/2019 05/08/2019	Makar Sokol

LM Start	10.28	Rating **	M	Issue No.	77
LM End	10.28	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.033517 °	39.033517 °
				-121.728925 °	-121.728925 °
DWR ID	16900				

Comment Code

Inspector Comment

FS_ID:53877
DS_ID:16900
EP_NO: 14455
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: 05/01/2019 (O. Magana - DWR UCIP)10/04/2018 Crossing has been downgraded from Urgent to Non-Urgent. Slopes are stable. WS toe was stabilized with rock. Need to contact utility owner to determine the status of the line. Unable to determine if the line is abandoned or active therefore crossing remains classified as a Non-Urgent issue. (O. Magana - DWR UCIP)
4/11/2017 The damage to the levee toe was repaired by Sutter Maintenance Yard. The hole was filled in and compacted with rock. The repairs have not yet been made to the gas line by the gas line owners but the damage does not affect the integrity of the levee or bank. Photos updated. (DWR Sutter Yard- AFreitag)10/18/2016 it is unknown if the damage to the levee toe from the farmer getting his tractor stuck has been repaired (DWR UCIP - thatch)
10/10/2016 Crossing appears to be in good condition but im not sure if the damaged pipe section at the WS berm was ever repaired. (DWR Sutter Yard - afreitag)4/18/2016 Gas line was damaged at the WS berm due to a farmer getting his tractor stuck. Gas company is aware of the damage and will be doing repairs sometime this summer. Damage should not affect the integrity of the levee. (DWR Sutter Yard - afreitag)5/7/2015 Marker on Ws broken. (DWR Sutter Yard - afreitag)11/12/2014 Same as last inspection. (DWR Sutter Yard - afreitag)5/13/2014 Same as last inspection. (DWR Sutter Yard - afreitag)10/30/2013 Same as last inspection. (DWR Sutter Yard - afreitag)5/22/2013 Carsonite marker on WS shoulder is broken and should be replaced. (DWR Sutter Yard - afreitag)
FIELD_STRUCT_DESC: 3 of 3: 4.5-inch steel natural gas pipeline through the levee, 2 feet below the crown. Pipes were placed in same trench, 1 foot apart. Gas line markers located on the landside (LS) toe and the waterside (WS) shoulder. Owner listed on markers is California Resources Corporation (CRC) and can be reached in case of emergency at 1-661-763-6363. For dig alert, call 811 or USA North 1-800-227-2600. (underground natural gas pipeline across Sutter Bypass and through both levees authorized under Permit No. 14455, 1986 - Depco, Inc.; name and ownership change for underground natural gas line was authorized under Permit No. 14455-1, 2016 - California Resources Production Cooperation [CRC]).
FS Date: 5/1/2019 2:15:18 PM

Photo 1 of 3 : UCIP_SP_2019_53877_65224.jpg



Gasline markers on LS toe.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	05/08/2019 05/08/2019	Makar Sokol

LM Start	10.28	Rating **	M	Issue No.	77 (cont)	
LM End	10.28	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.033517 °	39.033517 °	
				-121.728925 °	-121.728925 °	
DWR ID	16900					

Comment Code

Inspector Comment

FS_ID:53877
DS_ID:16900
EP_NO: 14455
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: 05/01/2019 (O. Magana - DWR UCIP)10/04/2018 Crossing has been downgraded from Urgent to Non-Urgent. Slopes are stable. WS toe was stabilized with rock. Need to contact utility owner to determine the status of the line. Unable to determine if the line is abandoned or active therefore crossing remains classified as a Non-Urgent issue. (O. Magana - DWR UCIP)
4/11/2017 The damage to the levee toe was repaired by Sutter Maintenance Yard. The hole was filled in and compacted with rock. The repairs have not yet been made to the gas line by the gas line owners but the damage does not affect the integrity of the levee or bank. Photos updated. (DWR Sutter Yard- AFreitag)10/18/2016 it is unknown if the damage to the levee toe from the farmer getting his tractor stuck has been repaired (DWR UCIP - thatch)
10/10/2016 Crossing appears to be in good condition but im not sure if the damaged pipe section at the WS berm was ever repaired. (DWR Sutter Yard - afreitag)4/18/2016 Gas line was damaged at the WS berm due to a farmer getting his tractor stuck. Gas company is aware of the damage and will be doing repairs sometime this summer. Damage should not affect the integrity of the levee. (DWR Sutter Yard - afreitag)5/7/2015 Marker on Ws broken. (DWR Sutter Yard - afreitag)11/12/2014 Same as last inspection. (DWR Sutter Yard - afreitag)5/13/2014 Same as last inspection. (DWR Sutter Yard - afreitag)10/30/2013 Same as last inspection. (DWR Sutter Yard - afreitag)5/22/2013 Carsonite marker on WS shoulder is broken and should be replaced. (DWR Sutter Yard - afreitag)
FIELD_STRUCT_DESC: 3 of 3: 4.5-inch steel natural gas pipeline through the levee, 2 feet below the crown. Pipes were placed in same trench, 1 foot apart. Gas line markers located on the landside (LS) toe and the waterside (WS) shoulder. Owner listed on markers is California Resources Corporation (CRC) and can be reached in case of emergency at 1-661-763-6363. For dig alert, call 811 or USA North 1-800-227-2600. (underground natural gas pipeline across Sutter Bypass and through both levees authorized under Permit No. 14455, 1986 - Depco, Inc.; name and ownership change for underground natural gas line was authorized under Permit No. 14455-1, 2016 - California Resources Production Cooperation [CRC]).
FS Date: 5/1/2019 2:15:18 PM

Photo 2 of 3 : UCIP_SP_2019_53877_65223.jpg



Gasline markers on WS shoulder.

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	05/08/2019 05/08/2019	Makar Sokol

LM Start	10.28	Rating **	M	Issue No.	77 (cont)
LM End	10.28	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.033517 °	39.033517 °
				-121.728925 °	-121.728925 °
DWR ID	16900				

Comment Code

Inspector Comment

FS_ID:53877
DS_ID:16900
EP_NO: 14455
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: 05/01/2019 (O. Magana - DWR UCIP)10/04/2018 Crossing has been downgraded from Urgent to Non-Urgent. Slopes are stable. WS toe was stabilized with rock. Need to contact utility owner to determine the status of the line. Unable to determine if the line is abandoned or active therefore crossing remains classified as a Non-Urgent issue. (O. Magana - DWR UCIP)
4/11/2017 The damage to the levee toe was repaired by Sutter Maintenance Yard. The hole was filled in and compacted with rock. The repairs have not yet been made to the gas line by the gas line owners but the damage does not affect the integrity of the levee or bank. Photos updated. (DWR Sutter Yard- AFreitag)10/18/2016 it is unknown if the damage to the levee toe from the farmer getting his tractor stuck has been repaired (DWR UCIP - thatch)
10/10/2016 Crossing appears to be in good condition but im not sure if the damaged pipe section at the WS berm was ever repaired. (DWR Sutter Yard - afreitag)4/18/2016 Gas line was damaged at the WS berm due to a farmer getting his tractor stuck. Gas company is aware of the damage and will be doing repairs sometime this summer. Damage should not affect the integrity of the levee. (DWR Sutter Yard - afreitag)5/7/2015 Marker on Ws broken. (DWR Sutter Yard - afreitag)11/12/2014 Same as last inspection. (DWR Sutter Yard - afreitag)5/13/2014 Same as last inspection. (DWR Sutter Yard - afreitag)10/30/2013 Same as last inspection. (DWR Sutter Yard - afreitag)5/22/2013 Carsonite marker on WS shoulder is broken and should be replaced. (DWR Sutter Yard - afreitag)
FIELD_STRUCT_DESC: 3 of 3: 4.5-inch steel natural gas pipeline through the levee, 2 feet below the crown. Pipes were placed in same trench, 1 foot apart. Gas line markers located on the landside (LS) toe and the waterside (WS) shoulder. Owner listed on markers is California Resources Corporation (CRC) and can be reached in case of emergency at 1-661-763-6363. For dig alert, call 811 or USA North 1-800-227-2600. (underground natural gas pipeline across Sutter Bypass and through both levees authorized under Permit No. 14455, 1986 - Depco, Inc.; name and ownership change for underground natural gas line was authorized under Permit No. 14455-1, 2016 - California Resources Production Cooperation [CRC]).
FS Date: 5/1/2019 2:15:18 PM

Photo 3 of 3 : UCIP_SP_2019_53877_74960.jpg



Damaged gas lines at WS berm.

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	05/08/2019 05/08/2019	Makar Sokol

LM Start	10.83	Rating **	M	Issue No.	78
LM End	10.83	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		39.025693 °	39.025693 °	
			-121.726895 °	-121.726895 °	
DWR ID	16871				

Comment Code

Inspector Comment

FS_ID:53897
DS_ID:16871
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 05/01/2019 (O. Magana - DWR UCIP)04/11/2017
Aabandoned.10/10/2016 Abandoned crossing.04/18/2016
Abandoned crossing but no noticeable issues seen with it.05/07/2015
Abandoned crossing but no noticeable issues with it.11/12/2014
Same as last inspection.05/13/2014 Same as last
inspection.10/30/2013 Same as last inspection.05/22/2013 Same
as last inspection.10/8/2012 Need to determine type of abandonment.
FIELD_STRUCT_DESC: *ABANDONED* [Pumping Plant No. 2] 1 of 5:
48-inch by 72-inch reinforced concrete drainage culvert through the
levee, 31.5 feet below the crown. Wood flap gate and concrete
headwall on the waterside (WS) end. Wooden steps on the landside
(LS) slope. Concrete steps on the WS end. [Additional Reference(s):
DWR Levee Log, 2005. USACE Sacramento O&M Manual 315, May
1953 (Station 582+19)].
FS Date: 5/1/2019 2:29:39 PM

LM Start	10.83	Rating **	M	Issue No.	78 (cont)
LM End	10.83	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP_SP_2019_53897_65251.jpg



Slide gates on WS shoulder

Photo 2 of 3 : UCIP_SP_2019_53897_65250.jpg



Flap gates on WS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	05/08/2019 05/08/2019	Makar Sokol

LM Start	10.83	Rating **	M	Issue No.	78 (cont)	
LM End	10.83	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			39.025693 °	39.025693 °	
				-121.726895 °	-121.726895 °	
DWR ID	16871					
Comment Code						
Inspector Comment						
FS_ID:53897 DS_ID:16871 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 05/01/2019 (O. Magana - DWR UCIP)04/11/2017 Aabandoned.10/10/2016 Abandoned crossing.04/18/2016 Abandoned crossing but no noticeable issues seen with it.05/07/2015 Abandoned crossing but no noticebale issues with it.11/12/2014 Same as last inspection.05/13/2014 Same as last inspection.10/30/2013 Same as last inspection.05/22/2013 Same as last inspection.10/8/2012 Need to determine type of abandonment. FIELD_STRUCT_DESC: *ABANDONED* [Pumping Plant No. 2] 1 of 5: 48-inch by 72-inch reinforced concrete drainage culvert through the levee, 31.5 feet below the crown. Wood flap gate and concrete headwall on the waterside (WS) end. Wooden steps on the landside (LS) slope. Concrete steps on the WS end. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 315, May 1953 (Station 582+19)]. FS Date: 5/1/2019 2:29:39 PM						

Photo 3 of 3 : UCIP_SP_2019_53897_65249.jpg



Pumphouse/intake structure on LS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	05/08/2019 05/08/2019	Makar Sokol

LM Start	10.83	Rating **	M	Issue No.	79
LM End	10.83	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.025683 °	39.025683 °
				-121.726886 °	-121.726886 °
DWR ID	16906				
Comment Code					
Inspector Comment					
FS_ID:53898 DS_ID:16906 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 05/01/2019 (O. Magana - DWR UCIP)04/11/2017 Abandoned.10/10/2016 Crossing appears to be in good condition. (DWR Sutter Yard - afreitag)04/18/2016 Abandoned crossing but no noticeable issues seen with it.05/07/2015 Abandoned crossing but no noticeable issues to report.11/12/2014 Same as last inspection.05/13/2014 Same as last inspection.10/30/2013 Same as last inspection.05/22/2013 Same as last inspection.10/8/2012 Determine type of abandonment. FIELD_STRUCT_DESC: *ABANDONED* [Pumping Plant No. 2] 2 of 5: 48-inch by 72-inch reinforced concrete drainage culvert through the levee, 31.5 feet below the crown. Wood flap gate and concrete headwall on the waterside (WS) end. Wooden steps on the landside (LS) slope. Concrete steps on the WS end. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 315, May 1953 (Station 582+19)]. FS Date: 5/1/2019 2:30:20 PM					

LM Start	10.83	Rating **	M	Issue No.	79 (cont)
LM End	10.83	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP_SP_2019_53898_65254.jpg



Slide gates on WS shoulder.

Photo 2 of 3 : UCIP_SP_2019_53898_65253.jpg



Flap gates on WS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	05/08/2019 05/08/2019	Makar Sokol

LM Start	10.83	Rating **	M	Issue No.	79 (cont)	
LM End	10.83	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			39.025683 °		39.025683 °
				-121.726886 °		-121.726886 °
DWR ID	16906					
Comment Code						
Inspector Comment						
FS_ID:53898 DS_ID:16906 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 05/01/2019 (O. Magana - DWR UCIP)04/11/2017 Abandoned.10/10/2016 Crossing appears to be in good condition. (DWR Sutter Yard - afreitag)04/18/2016 Abandoned crossing but no noticeable issues seen with it.05/07/2015 Abandoned crossing but no noticeable issues to report.11/12/2014 Same as last inspection.05/13/2014 Same as last inspection.10/30/2013 Same as last inspection.05/22/2013 Same as last inspection.10/8/2012 Determine type of abandonment. FIELD_STRUCT_DESC: *ABANDONED* [Pumping Plant No. 2] 2 of 5: 48-inch by 72-inch reinforced concrete drainage culvert through the levee, 31.5 feet below the crown. Wood flap gate and concrete headwall on the waterside (WS) end. Wooden steps on the landside (LS) slope. Concrete steps on the WS end. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 315, May 1953 (Station 582+19)]. FS Date: 5/1/2019 2:30:20 PM						

Photo 3 of 3 : UCIP_SP_2019_53898_65252.jpg



Pumping plant on LS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	05/08/2019 05/08/2019	Makar Sokol

LM Start	10.83	Rating **	A/W	Issue No.	80	
LM End	10.83	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			39.025673 °	39.025673 °	
				-121.726873 °	-121.726873 °	
DWR ID	16907					
Comment Code						
Inspector Comment						
FS_ID:53899 DS_ID:16907 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 05/01/2019 (O. Magana - DWR UCIP)04/11/2017 Not abandoned. Good condition. (DWR Sutter Yard- AFreitag)10/10/2016 NOT ABANDONED. The old pumping plant was removed but the culverts are still used as a gravity drain to regulate the water level in the LS ditch.(DWR Sutter Yard - afreitag)04/18/2016 Crossing is in good condition. The culvert is not abandoned and is used as gravity drain for the LS ditch into the bypass channel.05/07/2015 Concrete culvert is being used as a gravity drain for LS ditch.11/12/2014 Same as last inspection.05/13/2014 Same as last inspection.10/30/2013 Same as last inspection.05/22/2013 Concrete culvert is being used as gravity drain for LS ditch.10/08/2012 Need to determine type of abandonment. FIELD_STRUCT_DESC: [Pumping Plant No. 2] 3 of 5: 48-inch by 72- inch reinforced concrete drainage culvert through the levee, 31.5 feet below the crown. Slide gate in concrete well on the waterside (WS) shoulder. Wood flap gate and concrete headwall on the WS end. Wooden steps on the landside (LS) slope. Concrete steps on the WS end. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 315, May 1953 (Station 582+19)]. FS Date: 5/1/2019 2:31:00 PM						

LM Start	10.83	Rating **	A/W	Issue No.	80 (cont)
LM End	10.83	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP_SP_2019_53899_65257.jpg



Slide gates on WS shoulder.

Photo 2 of 3 : UCIP_SP_2019_53899_65256.jpg



Flap gates on WS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	05/08/2019 05/08/2019	Makar Sokol

LM Start	10.83	Rating **	A/W	Issue No.	81
LM End	10.83	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.025656 °	39.025656 °
				-121.726878 °	-121.726878 °
DWR ID	16908				

Comment Code

Inspector Comment

FS_ID:53930
DS_ID:16908
EP_NO: N/A
Repair Type: No Action Needed
Crossing Status: Found
UCIP Comments: 05/01/2019 (O. Magana - DWR UCIP)04/11/2017 Not abandoned. Good condition. (DWR Sutter Yard - AFreitag)10/10/2016 NOT ABANDONED. The old pumping plant was removed but the culverts are still used as a gravity drain to regulate the water level in the LS ditch.(DWR Sutter Yard - afreitag)04/18/2016 Crossing is in good condition. The culvert is not abandoned and is used as gravity drain for the LS ditch into the bypass channel.05/07/2015 Concrete culvert is being used as a gravity drain for LS ditch.11/12/2014 Same as last inspection.10/30/2013 Same as last inspection.10/08/2012 Need to determine type of abandonment.05/22/2013 Concrete culvert is being used as gravity drain for LS ditch.
FIELD_STRUCT_DESC: *ABANDONED* [Pumping Plant No. 2] 4 of 5: 48-inch by 72-inch reinforced concrete drainage culvert through the levee, 31.5 feet below the crown. Slide gate in concrete well on the waterside (WS) shoulder. Wood flap gate and concrete headwall on the WS end. Wooden steps on the landside (LS) slope. Concrete steps on the WS end. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 315, May 1953 (Station 582+19)].
FS Date: 4/13/2017 2:19:00 PM

LM Start	10.83	Rating **	A/W	Issue No.	81 (cont)
LM End	10.83	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP_SP_2019_53930_65260.jpg



Slide gates on WS shoulder.

Photo 2 of 3 : UCIP_SP_2019_53930_65259.jpg



Flap gates on WS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	05/08/2019 05/08/2019	Makar Sokol

LM Start	10.83	Rating **	A/W	Issue No.	81 (cont)
LM End	10.83	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.025656 °	39.025656 °
				-121.726878 °	-121.726878 °
DWR ID	16908				

Comment Code

Inspector Comment

FS_ID:53930
DS_ID:16908
EP_NO: N/A
Repair Type: No Action Needed
Crossing Status: Found
UCIP Comments: 05/01/2019 (O. Magana - DWR UCIP)04/11/2017 Not abandoned. Good condition. (DWR Sutter Yard - AFreitag)10/10/2016 NOT ABANDONED. The old pumping plant was removed but the culverts are still used as a gravity drain to regulate the water level in the LS ditch.(DWR Sutter Yard - afreitag)04/18/2016 Crossing is in good condition. The culvert is not abandoned and is used as gravity drain for the LS ditch into the bypass channel.05/07/2015 Concrete culvert is being used as a gravity drain for LS ditch.11/12/2014 Same as last inspection.10/30/2013 Same as last inspection.10/08/2012 Need to determine type of abandonment.05/22/2013 Concrete culvert is being used as gravity drain for LS ditch.
FIELD_STRUCT_DESC: *ABANDONED* [Pumping Plant No. 2] 4 of 5: 48-inch by 72-inch reinforced concrete drainage culvert through the levee, 31.5 feet below the crown. Slide gate in concrete well on the waterside (WS) shoulder. Wood flap gate and concrete headwall on the WS end. Wooden steps on the landside (LS) slope. Concrete steps on the WS end. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 315, May 1953 (Station 582+19)].
FS Date: 4/13/2017 2:19:00 PM

Photo 3 of 3 : UCIP_SP_2019_53930_65258.jpg



Pumphouse and intake on LS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	05/08/2019 05/08/2019	Makar Sokol

LM Start	10.83	Rating **	A/W	Issue No.	82
LM End	10.83	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.025639 °	39.025639 °
				-121.726874 °	-121.726874 °
DWR ID	16909				

Comment Code

Inspector Comment

FS_ID:53931
DS_ID:16909
EP_NO: N/A
Repair Type: No Action Needed
Crossing Status: Found
UCIP Comments: 05/01/2019 (O. Magana - DWR UCIP)04/11/2017 Not abandoned. Good condition. (DWR Sutter Yard - AFreitag)10/10/2016 NOT ABANDONED. The old pumping plant was removed but the culverts are still used as a gravity drain to regulate the water level in the LS ditch.(DWR Sutter Yard - afreitag)04/18/2016 Crossing is in good condition. The culvert is not abandoned and is used as gravity drain for the LS ditch into the bypass channel.05/07/2015 Concrete culvert is being used as a gravity drain for LS ditch.11/12/2014 Same as last inspection.05/13/2014 Same as last inspection.10/30/2013 Same as last inspection.05/22/2013 Concrete culvert is being used as gravity drain for LS ditch.10/08/2012 Need to determine type of abandonment for pipe.
FIELD_STRUCT_DESC: [Pumping Plant No. 2] 5 of 5: 48-inch by 72-inch reinforced concrete drainage culvert through the levee, 31.5 feet below the crown. Slide gate in concrete well on the waterside (WS) shoulder. Wood flap gate and concrete headwall on the WS end. Wooden steps on the landside (LS) slope. Concrete steps on the WS end. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 315, May 1953 (Station 582+19)].
FS Date: 5/1/2019 3:13:59 PM

LM Start	10.83	Rating **	A/W	Issue No.	82 (cont)
LM End	10.83	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP_SP_2019_53931_65263.jpg



Slide gates on WS shoulder.

Photo 2 of 3 : UCIP_SP_2019_53931_65262.jpg



Flap gates on WS Toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	05/08/2019 05/08/2019	Makar Sokol

LM Start	10.83	Rating **	A/W	Issue No.	82 (cont)	
LM End	10.83	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			39.025639 °	39.025639 °	
				-121.726874 °	-121.726874 °	
DWR ID	16909					
Comment Code						
Inspector Comment						
FS_ID:53931 DS_ID:16909 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 05/01/2019 (O. Magana - DWR UCIP)04/11/2017 Not abandoned. Good condition. (DWR Sutter Yard- AFreitag)10/10/2016 NOT ABANDONED. The old pumping plant was removed but the culverts are still used as a gravity drain to regulate the water level in the LS ditch.(DWR Sutter Yard - afreitag)04/18/2016 Crossing is in good condition. The culvert is not abandoned and is used as gravity drain for the LS ditch into the bypass channel.05/07/2015 Concrete culvert is being used as a gravity drain for LS ditch.11/12/2014 Same as last inspection.05/13/2014 Same as last inspection.10/30/2013 Same as last inspection.05/22/2013 Concrete culvert is being used as gravity drain for LS ditch.10/08/2012 Need to determine type of abandonment for pipe. FIELD_STRUCT_DESC: [Pumping Plant No. 2] 5 of 5: 48-inch by 72- inch reinforced concrete drainage culvert through the levee, 31.5 feet below the crown. Slide gate in concrete well on the waterside (WS) shoulder. Wood flap gate and concrete headwall on the WS end. Wooden steps on the landside (LS) slope. Concrete steps on the WS end. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 315, May 1953 (Station 582+19)]. FS Date: 5/1/2019 3:13:59 PM						

Photo 3 of 3 : UCIP_SP_2019_53931_65261.jpg



Pumphouse/intake on LS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	05/08/2019 05/08/2019	Makar Sokol

LM Start	10.84	Rating **	M	Issue No.	83
LM End	10.84	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.025560 °	39.025560 °
				-121.726846 °	-121.726846 °
DWR ID	16872				
Comment Code					
Inspector Comment					
FS_ID:53932 DS_ID:16872 EP_NO: 3165 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 05/01/2019 (O. Magana - DWR UCIP)04/11/2017 Abandoned. 10/10/2016 Abandoned crossing. (DWR Sutter Yard - afreitag)04/18/2016 Abandoned crossing but no noticebale issues to report.05/07/2015 Abandoned crossing. No noticeable issues to report.11/12/2014 Same as last inspection.05/13/2014 Same as last inspection.10/30/2013 Same as last inspection.05/22/2013 Same as last inspection.10/08/2012 Need to determine type of abandonment. FIELD_STRUCT_DESC: *ABANDONED* 10-inch drainage pipe through the levee, 2 feet below the crown. Siphon breaker in a 36-inch corrugated metal pipe (CMP) riser on the waterside (WS) shoulder. Flap gate on the WS end. Minimalistic design drawings available. (two 10-inch pipes, different locations, authorized under Permit No. 3165, 1959 - State of California Department of Water Resources [DWR]). [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 5/1/2019 3:14:22 PM					

Photo 1 of 1 : UCIP_SP_2019_53932_65264.jpg



Siphon breaker in 36-inch CMP riser on WS shoulder. Pipe visible at siphon breaker.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	05/08/2019 05/08/2019	Makar Sokol

LM Start	10.85	Rating **	M	Issue No.	84 (cont)	
LM End	10.85	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.025310 °	39.025310 °	
				-121.726770 °	-121.726770 °	
DWR ID	19986					
Comment Code						
Inspector Comment						
FS_ID:53933 DS_ID:19986 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: 05/01/2019 (O. Magana - DWR UCIP)04/11/2017 Crossing appears to be in good condition. (DWR Sutter Yard - A Freitag)10/10/2016 Crossing appears to be in good condition but there is no permit on file.(DWR Sutter Yard - a Freitag)04/18/2016 Crossing appears in good condition. No noticeable issues to report.05/07/2015 Crossing is in good condition. No noticeable issues to report.11/12/2014 Same as last inspection.05/13/2014 Same as last inspection.10/30/2013 Same as last inspection.05/22/2013 Same as last inspection.10/09/2012 No permit identified for crossing. FIELD_STRUCT_DESC: Gas pipeline of an unknown size or material crosses the levee, at an unknown depth. Carsonite signs on both the landside (LS) and the waterside (WS) shoulder. Pipeline is owned by Calpine Pipeline Company. No permit has been identified since crossing was field discovered in 2012. FS Date: 5/1/2019 3:14:57 PM						

Photo 3 of 3 : UCIP_SP_2019_53933_76971.jpg



Close up of marker

LM Start	10.88	Rating **	M	Issue No.	1
LM End	10.91	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey, DRAFT			39.024835 °	39.024399 °
				-121.726929 °	-121.726808 °
DWR ID	DWR_ST0002_01_s_2016_1				
Comment Code					
Inspector Comment					
2011 - Small section of the mid levee slope has eroded from wind wave.					
2015: Site is part of the extended inventory, last inspected 2011. [2015					
Site ID: SBP_11-1_L] No change					

No Photos

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	05/08/2019 05/08/2019	Makar Sokol

LM Start	12.75	Rating **	M	Issue No.	44
LM End	12.75	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.998698 °	38.998698 °
				-121.718062 °	-121.718062 °
DWR ID	DWR_ST0002_01_s_2018_44				
Comment Code					
MA : Material					
Inspector Comment					
Remove the tires from the waterside slope and toe.					

Photo 1 of 1 : SP_2019_ST0002_450_44_20190327_00010.jpg



View of the tires along the waterside slope and toe.

LM Start	12.94	Rating **	M	Issue No.	85
LM End	12.94	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.996304 °	38.996304 °
				-121.716290 °	-121.716290 °
DWR ID	16883				
Comment Code					
Inspector Comment					
FS_ID:53934 DS_ID:16883 EP_NO: 15571 Repair Type: Non-Urgent Crossing Status: Not Found UCIP Comments: 05/01/2019 (O. Magana - DWR UCIP)04/11/2017 Unable to locate. (DWR Sutter Yard - A Freitag)10/10/2016 Unable to locate.(DWR Sutter Yard - a Freitag)04/18/2016 Unable to locate.05/07/2015 Unable to locate.11/12/2014 Same as last inspection. Unable to locate.05/14/2014 Same as last inspection.10/30/2013 Same as last inspection.05/23/2013 Same as last inspection. Unable to locate.10/09/2012 Need to determine status of pipeline. Unable to locate any markers in field. FIELD_STRUCT_DESC: 10.75-inch steel gas pipeline through the levee, 2 feet below the crown. Pipeline was installed within the flowage area and both levees of the Sutter Bypass. Design drawings are available. (10-inch pipe authorized under Permit No. 15571, 1990 - Hood Corporation). FS Date: 5/1/2019 3:15:29 PM					

No Photos

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	05/08/2019 05/08/2019	Makar Sokol

LM Start	13.34	Rating **	A/W	Issue No.	23
LM End	13.34	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.991857 °	38.991857 °
				-121.711555 °	-121.711555 °
DWR ID	DWR_ST0002_01_s_2015_23				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					
Monitor the erosion along the waterside slope.					

Photo 1 of 1 : SP_2019_ST0002_450_23_20190327_00004.jpg



View of the vehicle erosion along the slope.

LM Start	14.71	Rating **	M	Issue No.	37
LM End	14.71	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.979389 °	38.979389 °
				-121.691923 °	-121.691923 °
DWR ID	DWR_ST0002_01_f_2016_37				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					

Photo 1 of 1 : SP_2019_ST0002_450_37_20190327_00008.jpg



View of the erosion caused by vehicle traffic.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	05/08/2019 05/08/2019	Makar Sokol

LM Start	14.71	Rating **	M	Issue No.	86
LM End	14.71	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		38.979377 °	38.979377 °	
			-121.691929 °	-121.691929 °	

DWR ID 16875

Comment Code

Inspector Comment

FS_ID:53937
DS_ID:16875
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 05/01/2019 (O. Magana - DWR UCIP)04/11/2017 Abandoned. (DWR Sutter Yard- A Freitag)10/10/2016 Abandoned crossing.(DWR Sutter Yard - a Freitag)04/18/2016 Abandoned crossing.05/07/2015 Abandoned crossing. Needs to be properly abandoned.11/12/2014 Same as last inspection.05/14/2014 Same as last inspection.10/30/2013 Same as last inspection.05/23/2013 Same as last inspection.10/09/2012 Pipe has not been abandoned properly. It should be removed from the levee section.
FIELD_STRUCT_DESC: 16-inch steel irrigation pipe through the levee, 3.5 feet below the crown. Siphon breakers in 30-inch steel risers on both the waterside (WS) and the landside (LS) shoulders. Vertical pump on pile structure in stream (removed). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 315, May 1953 (Station 377+10)].
FS Date: 5/1/2019 3:16:55 PM

LM Start	14.71	Rating **	M	Issue No.	86 (cont)
LM End	14.71	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_SP_2019_53937_65314.jpg



Pipe on WS slope exposed and crushed below 30-inch steel riser.

Photo 2 of 3 : UCIP_SP_2019_53937_65313.jpg



Steel riser on LS shoulder.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	05/08/2019 05/08/2019	Makar Sokol

LM Start	14.71	Rating **	M	Issue No.	86 (cont)	
LM End	14.71	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.979377 °	38.979377 °	
				-121.691929 °	-121.691929 °	
DWR ID	16875					
Comment Code						
Inspector Comment						
FS_ID:53937 DS_ID:16875 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 05/01/2019 (O. Magana - DWR UCIP)04/11/2017 Abandoned. (DWR Sutter Yard- A Freitag)10/10/2016 Abandoned crossing.(DWR Sutter Yard - a Freitag)04/18/2016 Abandoned crossing.05/07/2015 Abandoned crossing. Needs to be properly abandoned.11/12/2014 Same as last inspection.05/14/2014 Same as last inspection.10/30/2013 Same as last inspection.05/23/2013 Same as last inspection.10/09/2012 Pipe has not been abandoned properly. It should be removed from the levee section. FIELD_STRUCT_DESC: 16-inch steel irrigation pipe through the levee, 3.5 feet below the crown. Siphon breakers in 30-inch steel risers on both the waterside (WS) and the landside (LS) shoulders. Vertical pump on pile structure in stream (removed). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 315, May 1953 (Station 377+10)]. FS Date: 5/1/2019 3:16:55 PM						

Photo 3 of 3 : UCIP_SP_2019_53937_65312.jpg



Crushed pipe on WS slope.

LM Start	17.60	Rating **	M	Issue No.	21
LM End	17.60	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.949965 °	38.949965 °
				-121.653823 °	-121.653823 °
DWR ID	DWR_ST0002_01_s_2015_21				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					

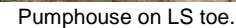
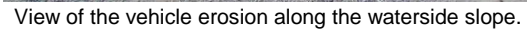
Photo 1 of 2 : SP_2019_ST0002_450_21_20190327_00002.jpg



View of the vehicle erosion along the waterside slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Sutter Maintenance Yard East Levee Sutter Bypass



**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	05/08/2019 05/08/2019	Makar Sokol

LM Start	19.18	Rating **	A/W	Issue No.	87 (cont)	
LM End	19.18	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			38.932476 °	38.932476 °	
				-121.635173 °	-121.635173 °	
DWR ID	16877					
Comment Code						
Inspector Comment						
FS_ID:53911 DS_ID:16877 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 05/01/2019 (O. Magana - DWR UCIP)04/11/2017 Not abandoned. Good condition. (DWR Sutter Yard - AFreitag)10/10/2016 NOT ABANDONED. The old pumping plant was abandoned but the culverts are still used as a gravity drain to regulate the water level in the LS ditch.(DWR Sutter Yard - afreitag)04/18/2016 Crossing is in good condition. The culvert is not abandoned and is used as gravity drain for the LS ditch into the bypass channel.05/07/2015 Concrete culvert is being used as a gravity drain for LS ditch.11/12/2014 Same as last inspection.05/14/2014 Same as last inspection.10/30/2013 Same as last inspection.05/23/2013 Concrete culvert is being used as gravity drain for LS ditch.10/09/2012 Determine type of abandonment for concrete culvert. FIELD_STRUCT_DESC: [Pumping Plant No. 1] 1 of 3: 48-inch by 72- inch reinforced concrete drainage culvert through the levee, 26 feet below the crown. Slide gates in a concrete well on the waterside (WS) shoulder. Wooden flap gates and concrete headwall on the WS end. Concrete steps and staff gage reading to 53 feet on the WS slope. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 315, May 1953 (Station 141+46)]. FS Date: 5/1/2019 2:41:34 PM						

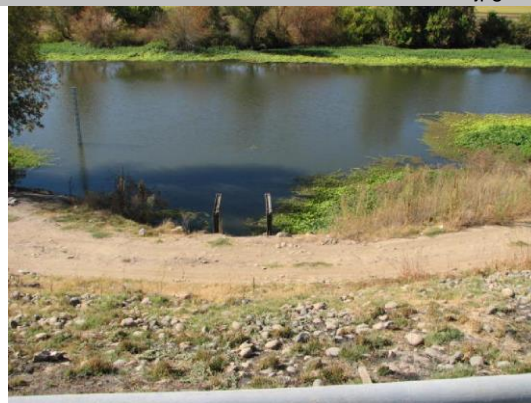
LM Start	19.18	Rating **	A/W	Issue No.	87 (cont)
LM End	19.18	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP_SP_2019_53911_65325.jpg



Slide gates on WS shoulder.

Photo 3 of 3 : UCIP_SP_2019_53911_65327.jpg



Flap gates on WS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	05/08/2019 05/08/2019	Makar Sokol

LM Start	19.18	Rating **	A/W	Issue No.	88
LM End	19.18	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		38.932469 °	38.932469 °	
			-121.635160 °	-121.635160 °	
DWR ID	17027				

Comment Code

Inspector Comment

FS_ID:53912
DS_ID:17027
EP_NO: N/A
Repair Type: No Action Needed
Crossing Status: Found
UCIP Comments: 05/01/2019 (O. Magana - DWR UCIP)04/11/2017 Not abandoned. Good Condition. (DWR Sutter Yard-AFreitag)10/10/2016 NOT ABANDONED. The old pumping plant was abandoned but the culverts are still used as a gravity drain to regulate the water level in the LS ditch.(DWR Sutter Yard - afreitag)04/18/2016 Crossing is in good condition. The culvert is not abandoned and is used as gravity drain for the LS ditch into the bypass channel.05/07/2015 Concrete culvert is being used as a gravity drain for LS ditch.11/12/2014 Same as last inspection.05/14/2014 Same as last inspection.10/30/2013 Same as last inspection.05/23/2013 Concrete culvert is being used as gravity drain for LS ditch.10/09/2012 Determine type of abandonment for concrete culverts.
FIELD_STRUCT_DESC: [Pumping Plant No. 1] 2 of 3: 48-inch by 72-inch reinforced concrete drainage culvert through the levee, 26 feet below the crown. Slide gates in a concrete well on the waterside (WS) shoulder. Wooden flap gates and concrete headwall on the WS end. Concrete steps and staff gage reading to 53 feet on the WS slope.
[Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 315, May 1953 (Station 141+46)].
FS Date: 5/1/2019 2:42:33 PM

LM Start	19.18	Rating **	A/W	Issue No.	88 (cont)
LM End	19.18	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP_SP_2019_53912_65330.jpg



Pumphouse on LS toe.

Photo 2 of 3 : UCIP_SP_2019_53912_65329.jpg



Slide gates on WS shoulder.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

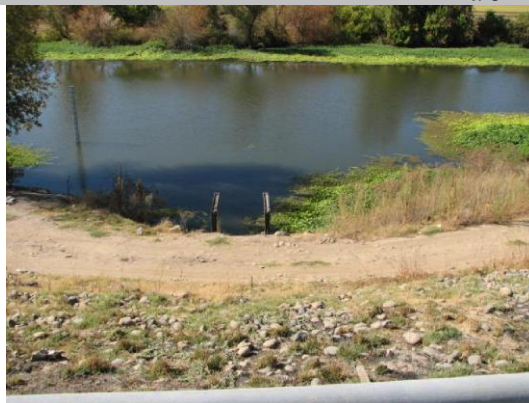
Levee Inspection Report By Mile - Spring 2019

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	05/08/2019 05/08/2019	Makar Sokol

LM Start	19.18	Rating **	A/W	Issue No.	88 (cont)	
LM End	19.18	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			38.932469 °	38.932469 °	
				-121.635160 °	-121.635160 °	
DWR ID	17027					
Comment Code						
Inspector Comment						
FS_ID:53912 DS_ID:17027 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 05/01/2019 (O. Magana - DWR UCIP)04/11/2017 Not abandoned. Good Condition. (DWR Sutter Yard - AFreitag)10/10/2016 NOT ABANDONED. The old pumping plant was abandoned but the culverts are still used as a gravity drain to regulate the water level in the LS ditch.(DWR Sutter Yard - afreitag)04/18/2016 Crossing is in good condition. The culvert is not abandoned and is used as gravity drain for the LS ditch into the bypass channel.05/07/2015 Concrete culvert is being used as a gravity drain for LS ditch.11/12/2014 Same as last inspection.05/14/2014 Same as last inspection.10/30/2013 Same as last inspection.05/23/2013 Concrete culvert is being used as gravity drain for LS ditch.10/09/2012 Determine type of abandonment for concrete culverts. FIELD_STRUCT_DESC: [Pumping Plant No. 1] 2 of 3: 48-inch by 72-inch reinforced concrete drainage culvert through the levee, 26 feet below the crown. Slide gates in a concrete well on the waterside (WS) shoulder. Wooden flap gates and concrete headwall on the WS end. Concrete steps and staff gage reading to 53 feet on the WS slope. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 315, May 1953 (Station 141+46)]. FS Date: 5/1/2019 2:42:33 PM						

Photo 3 of 3 : UCIP_SP_2019_53912_65328.jpg



Flap gates on WS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	05/08/2019 05/08/2019	Makar Sokol

LM Start	19.18	Rating **	A/W	Issue No.	89
LM End	19.18	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			38.932460 °	38.932460 °
				-121.635150 °	-121.635150 °
DWR ID	17028				

Comment Code

Inspector Comment

FS_ID:53913
DS_ID:17028
EP_NO: N/A
Repair Type: No Action Needed
Crossing Status: Found
UCIP Comments: 05/01/2019 (O. Magana - DWR UCIP)04/11/2017 Not Abandoned. Good Condition. (DWR Sutter Yard - AFreitag)10/10/2016 NOT ABANDONED. The old pumping plant was abandoned but the culverts are still used as a gravity drain to regulate the water level in the LS ditch.(DWR Sutter Yard - afreitag)04/18/2016 Crossing is in good condition. The culvert is not abandoned and is used as gravity drain for the LS ditch into the bypass channel.05/07/2015 Concrete culvert is being used as a gravity drain for LS ditch.11/12/2014 Same as last inspection.05/14/2014 Same as last inspection.10/30/2013 Same as last inspection.05/23/2013 Concrete culvert is being used as gravity drain for LS ditch.10/09/2012 Need to determine type of abandonment for concrete culverts.
FIELD_STRUCT_DESC: [Pumping Plant No. 1] 3 of 3: 48-inch by 72-inch reinforced concrete drainage culvert through the levee, 26 feet below the crown. Slide gates in a concrete well on the waterside (WS) shoulder. Wooden flap gates and concrete headwall on the WS end. Concrete steps and staff gage reading to 53 feet on the WS slope.
[Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 315, May 1953 (Station 141+46)].
FS Date: 5/1/2019 2:43:21 PM

LM Start	19.18	Rating **	A/W	Issue No.	89 (cont)
LM End	19.18	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP_SP_2019_53913_65333.jpg



Pumphouse on LS toe.

Photo 2 of 3 : UCIP_SP_2019_53913_65332.jpg



Slide gates on WS shoulder.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

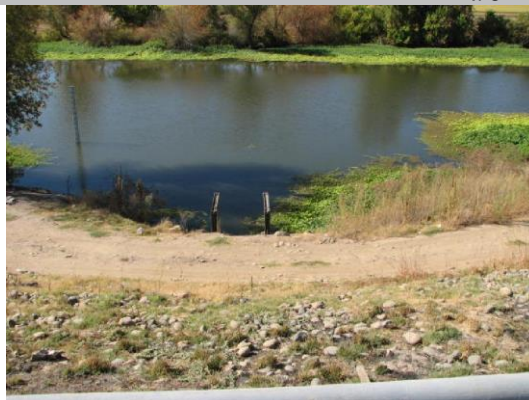
Levee Inspection Report By Mile - Spring 2019

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	05/08/2019 05/08/2019	Makar Sokol

LM Start	19.18	Rating **	A/W	Issue No.	89 (cont)	
LM End	19.18	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			38.932460 °	38.932460 °	
				-121.635150 °	-121.635150 °	
DWR ID	17028					
Comment Code						
Inspector Comment						
FS_ID:53913 DS_ID:17028 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 05/01/2019 (O. Magana - DWR UCIP)04/11/2017 Not Abandoned. Good Condition. (DWR Sutter Yard - AFreitag)10/10/2016 NOT ABANDONED. The old pumping plant was abandoned but the culverts are still used as a gravity drain to regulate the water level in the LS ditch.(DWR Sutter Yard - afreitag)04/18/2016 Crossing is in good condition. The culvert is not abandoned and is used as gravity drain for the LS ditch into the bypass channel.05/07/2015 Concrete culvert is being used as a gravity drain for LS ditch.11/12/2014 Same as last inspection.05/14/2014 Same as last inspection.10/30/2013 Same as last inspection.05/23/2013 Concrete culvert is being used as gravity drain for LS ditch.10/09/2012 Need to determine type of abandonment for concrete culverts. FIELD_STRUCT_DESC: [Pumping Plant No. 1] 3 of 3: 48-inch by 72-inch reinforced concrete drainage culvert through the levee, 26 feet below the crown. Slide gates in a concrete well on the waterside (WS) shoulder. Wooden flap gates and concrete headwall on the WS end. Concrete steps and staff gage reading to 53 feet on the WS slope. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 315, May 1953 (Station 141+46)]. FS Date: 5/1/2019 2:43:21 PM						

Photo 3 of 3 : UCIP_SP_2019_53913_65331.jpg



Flap gate at WS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	05/08/2019 05/08/2019	Makar Sokol

LM Start	19.18	Rating **		Issue No.	90
LM End	19.18	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.932423 °	38.932423 °
				-121.635085 °	-121.635085 °
DWR ID	16878				
Comment Code					
Inspector Comment					
FS_ID:53914 DS_ID:16878 EP_NO: 3165 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 05/01/2019 (O. Magana - DWR UCIP)04/11/2017 Abandoned. (DWR Sutter Yard- A Freitag)10/10/2016 Abandoned crossing. (DWR Suter Yard- a Freitag)04/18/2015 Abandoned crossing. No noticeable issues to report.05/07/2015 Abandoned crossing. No noticeable issues to report.11/12/2014 Same as last inspection.05/14/2014 Same as last inspection.10/30/2013 Same as last inspection.05/23/2013 Same as last inspection.10/09/2012 Need to determine type of abandonment. FIELD_STRUCT_DESC: *ABANDONED* 10-inch steel drainage pipe through the levee, 4 feet below the crown. Siphon breaker in 36-inch corrugated metal pipe (CMP) riser unit on the waterside (WS) shoulder. Flap gate on the WS end. (two 10-inch pipes, different locations, authorized under Permit No. 3165, 1959 - State of California, Department of Water Resources [DWR]) [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 5/1/2019 2:44:08 PM					

Photo 1 of 1 : UCIP_SP_2019_53914_65334.jpg



36-inch CMP riser on WS shoulder.

LM Start	19.21	Rating **	M	Issue No.	50
LM End	19.21	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.932019 °	38.932019 °
				-121.634713 °	-121.634713 °
DWR ID	DWR_ST0002_01_s_2019_50				
Comment Code					
TR : Tree or limb					
Inspector Comment					
The tree trunks and limbs should be removed from the waterside toe.					

Photo 1 of 1 : SP_2019_ST0002_450_50_20190510_00085.jpg



View of tree trunks and limbs at the waterside toe. Spring 2019.

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	05/08/2019 05/08/2019	Makar Sokol

LM Start	19.73	Rating **	M	Issue No.	49
LM End	19.73	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.926346 °	38.926346 °
				-121.628543 °	-121.628543 °
DWR ID	DWR_ST0002_01_s_2019_49				
Comment Code					
TR : Tree or limb					
Inspector Comment					
The large tree trunk should be removed from the waterside toe.					

No Photos

LM Start	20.02	Rating **	M	Issue No.	29
LM End	20.02	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.922678 °	38.922678 °
				-121.625890 °	-121.625890 °
DWR ID	DWR_ST0002_01_f_2015_29				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					

Photo 1 of 1 : SP_2019_ST0002_450_29_20190327_00006.jpg



View of the vehicle erosion along the waterside slope.

LM Start	20.34	Rating **	U	Issue No.	10
LM End	20.34	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.918147 °	38.918147 °
				-121.624545 °	-121.624545 °
DWR ID	DWR_ST0002_01_s_2012_10				
Comment Code					
BU : Building					
Inspector Comment					

Photo 1 of 1 : SP_2019_ST0002_450_10_20190327_00001.jpg



View of the house next to the toe of the levee.

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	05/08/2019 05/08/2019	Makar Sokol

LM Start	21.29	Rating **	A/W	Issue No.	43
LM End		Issue Type +	Ob	Location *	LS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	2017 Storm Damage		38.904832 °		°
			-121.620151 °		°
DWR ID	DWR_ST0002_01_f_2017_43				
Comment Code					
Inspector Comment					
Levee Evaluation Comments Description: Site ID No:174 Site Designation:164-24 Repair Type: Seepage Rating: Field Date: Notes:					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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